

RECORD OF PROCEEDINGS  
OF THE  
BOARD OF TRUSTEES  
OF THE  
OHIO STATE UNIVERSITY

COLUMBUS

July 1, 1988 to June 30, 1989

VOLUME 2

1988-1989

THE OHIO STATE UNIVERSITY

Edward H. Jennings, President

BOARD OF TRUSTEES

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Leonard J. Immke, Columbus	May 14, 1980	May 13, 1989
John W. Berry, Dayton	May 14, 1981	May 13, 1990
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Deborah E. Casto, Columbus	May 14, 1985	May 13, 1994
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Milton A. Wolf, Cleveland	May 14, 1987	May 13, 1996
Leslie H. Wexner, Columbus	May 14, 1988	May 13, 1997
Laurel A. Davis, * Tipp City	February 6, 1989	May 13, 1990
Sophia L. Paige, * Columbus	February 6, 1989 May 14, 1989	May 13, 1989 May 13, 1991

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THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FORTY-EIGHTH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, February 3, 1989

The Board of Trustees met at its regular monthly meeting on Friday, February 3, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved. The meeting recessed into Executive Session for the purpose of considering legal issues and personnel actions as follows: faculty/staff appointments and reappointments, resignations and terminations, leaves of absence without salary, professional improvement leaves, emeritus titles, and medical staff appointments/reappointments. Upon motion of Mr. Teaforde and seconded by Mr. Berry.

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February 3, 1989 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on February 3, 1989, at 1:20 p.m. He requested the Secretary to call the roll.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, and Leslie H. Wexner.

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## REPORT ON THE COLLEGE OF EDUCATION

Mr. Immke:

Dr. Brand, will you please introduce Dean Donald Anderson.

Dr. Brand:

I would like to introduce Donald Anderson. Don is the Dean of our College of Education and received his Master's degree and Ph.D. degree at the University of Minnesota, where he was also a high school teacher and principal for a number of years. He took a post-doctoral degree at Ohio State. He is prominent in a number of national organizations and has been with Ohio State since the late 1960's. Don is going to spend a few minutes in telling us about recent developments in the College of Education. Don

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Dean Donald P. Anderson:

Thank you. I have some material to distribute here. There are a few of my colleagues who think that I also should have an appointment in the College of The Arts because I was Acting Dean of the College four times. Maybe that qualifies me for an appointment in Drama, I'm just not sure. Myles, did say that I taught. I was a mathematics teacher for a number of years in Minnesota. I was a high school principal, first in a very rural school and then one of the suburban schools of Minneapolis before I finished my degree and came down here.

I have a lot of ties to Ohio State, including the fact that three of my four children have graduated from Ohio State. My oldest in engineering, a Bachelors and Masters; he then changed careers and is now finishing his residency in medicine at the University of Cincinnati. My second has his degree in Natural Resources and is part way through an MBA degree program here. My youngest, the third to graduate from here, finished in teacher education last year and is substitute teaching and looking for a job for next year. So, I hope I can help her in that regard. Then I have a very severely retarded daughter who has been living in a private residential school for fifteen years.

Let me, if I may, talk a little bit about the College, following this outline. There are over fifty institutions in Ohio training and preparing teachers -- the thirteen state universities plus a large number of the private liberal arts colleges. That means in effect that Ohio State's College of Education is committed to playing a very unique role. There is no need for us to get into the mass production of teachers. There are shortage areas right now, but we do not see that as our major charge. Being a part of a flagship university, we feel that we have a special capacity and a commitment to research and development kinds of activities to preparing programs to deal with certain at-risk populations, doing some of the kinds of things that I think we are best suited for.

We have been, over the last fifteen years, consistently ranked as one of the best -- in many cases the best -- colleges of education in public universities. There has been no recent ranking. The most recent was in 1980 which was a major reputational study where Stanford University was identified as first and Ohio State as second among all



## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

colleges of education. We have a number of program areas that are ranked in the top five including: educational administration; foreign language education; industrial technology; our whole School of Health, Physical Education, and Recreation; special education; curriculum; and an area that is coming into great prominence with us, the area of reading and literacy. There is a conference going on downtown right now. It started last night and we had 2,400 people in attendance at a conference on children's literature. It follows on a conference that we had earlier in the week on reading recovery where we had 1,300 people in attendance from twenty states and foreign countries, as well as Ohio.

The College has a long history of leadership development. In fact, that is how we gained our reputation -- I am convinced -- the reputation of fifteen, twenty years ago. A number of our graduates have moved into very prominent spots. I will sometime later talk a little bit about the Holmes Group. The Holmes Group is a group of 97 universities committed to reform in teacher education. They are primarily the major research universities. Eleven of the 97 deans have a connection to Ohio State. Three are on the faculty here and eight of them are our graduates. We have a number of people in major school superintendencies across the country -- interestingly enough, not many in Ohio. Most of them have moved to the east or west because of the salary differentials. The chief state school officer in this state and one other state, Frank Walters and one of his colleagues, is a graduate of our College. We have a number of people on State Department of Education staff's. A number of the people, in fact, on our Board of Regent's staff downtown are graduates of our College. The Chancellor of the Higher Education System in Tennessee, Arliss Roaden, was a member of our faculty, then Dean of our Graduate School here, before going to Tennessee. So I think our reputation has been built more on that kind of prominence than it has on something that is coming up. We want to continue to do that, obviously, but we also want to increase substantially our research productivity, and I will get back to that.

Our faculty is changing. The faculty grew substantially twenty years ago. Those people who joined the faculty then, many of whom were in their 30's, earlier 40's, some of them are at or now past retirement. We have a faculty that is still predominantly male, although that is changing very, very rapidly. We hired twelve new faculty members last year, eleven happened to be female. We were working at that, but that was an extraordinary event. More importantly however, of the thirteen retirees last year, only one was female. That is where we will make the difference. Our male faculty are the senior, older faculty and as they leave and we are replacing them, we are getting a better distribution.

During the last year we graduated 900 students with Baccalaureate degrees, 429 Masters students, and 113 Ph.D. students. Our baccalaureate students, I think, are very typical of the undergraduate population here at Ohio State, in terms of their origin. Most of them come from Ohio, but there are a relatively small number of foreign students in our undergraduate program. Our masters students are mostly local students. Most of our masters students are part-time students --evenings and summers -- they are teachers and administrators in school systems or working in educational organizations throughout Central Ohio. Our Ph.D. students come from across the country. And again, we have a relatively small number of foreign students. Of the 113 Ph.D. graduates, my guess is that less than 10 of them would have been from outside the United States. We had the highest graduate enrollments in the University. Most of our students are involved in someway or the other in professional education. There was a time fifteen years ago when most of them were preparing for and had experienced working in the K-12 schools. That has changed a good bit. We have a larger number of people now that

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

are interested in higher education. We are moving very rapidly in working with business and industry, providing people that move into training positions and in many, many spots across the country.

At the undergraduate level we offer a very large program. Thirty percent of our undergraduate student credit hours are offered in Health Education and Physical Education. These are elective courses primarily for the undergraduate student population here at Ohio State. A very attractive program and it would grow much more if we had both the personnel and the physical resources to do it. The ACT scores and the grade point averages of our undergraduates are increasing. And that is in large part a function of the demand to get into the field. We hit our low probably seven or eight years ago when there were very few people electing to come into our undergraduate programs in teacher education. Now we are pressed in the opposite direction. We accept from one-half to two-thirds of the students who are trying to get into our elementary ed program, for example. The GRE scores of our Ph.D. student applicants are among the highest in the University. I was a little surprised about this myself when Roy Koenigsnecht mentioned this the other day. But, that too is changing very rapidly. And that is a function of generating a lot of outside support for students. And, again, I will spend some time on that later.

The faculty is involved -- and I have been very actively involved myself -- in providing some leadership in a national teacher education reform movement. That is the Holmes Group membership. The outside funding for our research and development activity in the College has doubled in the last five years. We are now at the point where our outside funds exceed our general budget, which is very unusual in any education college and may in fact be unusual in any of the colleges of the social sciences. We were able to generate that kind of outside funding. That was true before the National Center for Vocational Education moved into the College and now, of course, they will have about \$4 million worth of funded activity next year and so it will clearly exceed the general budget support. Last year we were the fourth highest college in terms of generating money for student support. With the addition of the National Center, we should move into the third slot next year. The National Center has been retitled the Center on Education and Training for Employment. I was a little bit concerned at the time as to why we were changing the name; and now, in fact, I am pleased with the change.

There is a real change in terms of what we are trying to do in employment education today. I think we need to schuck the term "vocational ed" because it has some very negative connotations on the part of a lot of people. Brad Butler, who some of you probably know, the former CEO of Procter and Gamble, is very active in the State and in working with the Governor's Commission recently, has been very critical of the old fashion vocational education. He has indicated so, going back to a committee that he chaired seven or eight years ago that prompted a lot of the change in teacher education. The report was entitled, "Investing In Our Children." It came out of the Committee on Economic Development and was an impetus for drastic changes in the teacher education field. We had 250 staff members in that Center two years ago and we are now down to 59 now. We will probably down size a little more between now and June 30. Although we have been very, very successful in generating support for the people that are there.

About two years ago I set up a Center for Special Needs Population. We have about \$3.5 million worth of annual project funds now dealing with the special needs students. The special needs students would be the special education, handicapped students and now to include the students that are at risk, who may or may not be handicapped.

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

Sometime this spring I intend to establish yet one more center. A way to connect colleagues in the College, and in this case across the University as well, in Teacher Education. The Art Ed, Music Ed, and Home Ec Ed and Ag Ed students' programs are housed near the Colleges, but we work very closely with them and we want to incorporate them in another major research thrust in Teacher Ed.

The American Educational Research Association is the most prestigious organization in our field, and we have moved, as indicated here, from fourteenth to fifth over a period of ten years in terms of the AERA presentations there. It is a tough jury system and we are very pleased with that kind of change.

Three years ago with some new program monies we established a Policy Center on campus in the College. There are ten such centers across the country. The model is the Pace Center at California. The Pace Center at California is supported by Hewlett Packard. The intent of our center and clearly of the Pace Center is to do research, do some synthesis of research, and the results should be something that would be intended to inform policy makers. We have been working with the State Board of Education, with school boards, with the State Department of Education, and have had some conversation with legislators. In fact, Herb Asher and a number of legislators met with the Pace Director when he was here on campus about two months ago and outlined the kinds of things they are doing there. We think there is a lot of promise here.

In terms of service, our faculty hold a lot of prominent positions. We have faculty members in our College who have been presidents of the National Council of Teachers in Mathematics; the International Reading Association; the Association for Supervision and Curriculum Development; the American Alliance of Health, Physical Education, and Recreation and Dance. Many of these, by the way, are organizations that are comprised of both the Higher Ed and K-12 persons. It is unusual in most of those cases for a Higher Ed person to be elected president of those -- something like the National Council of Teachers in Mathematics.

We have mechanisms for providing service to the community. I directed, until two years ago, the School Study Council of Ohio, a consortium of 70 school systems here in Central Ohio. The intent was to provide staff development opportunities for the persons in the school system -- at all levels of the school system. One of my colleagues saw that operation and spun off another similar organization -- our Business/Industry Consortium. We now have about fifty members of a Business/Industry consortium, including The Dispatch, which just joined a couple of days ago; Libert; Huntington; Banc One; Nationwide; Columbus Auto Parts; different kinds of organizations. We started off by working with training directors and have done a lot with them in terms of developing training materials for their employees.

Under the other services category identified here -- in physical education we have a large cardiac rehabilitation program. After my bypass surgery of a year and a half ago, I am a recipient of the service provided by this enterprise in our own College. We started the faculty/staff fitness program at least ten years ago. We are doing fitness assessment. We will be involved with the Health Service in this fitness assessment program for the whole of the University.

We run the Peters-Huelsman Clinic. A clinic on campus that is setup to provide diagnostic services and some kind of treatment services for youngsters with learning problems. We have major funded projects in the area of vocational rehabilitation. We are working with the Columbus Schools on an interesting induction year teacher project.

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

We had some outside funding at the beginning, we are now working without the funding. The reason we got involved in these kinds of services was to generate some funds, but that is not the major reason. We are providing mechanisms for our grad students to get experiences. That is true with all of our programs over in Physical Education. The Peters-Huelsman Clinic -- all of our school psych students have a lot of opportunity to work in the clinic in an internship kind of role. We do manage for the University, the Essex School and the Governor's Institute for gifted high school students. That is more of a service for us. There is not a lot of involvement of grad students in that kind of activity.

I want to take a couple of minutes to talk about two examples of major activity going on in the College right now. The first is Reading Recovery. I mentioned that Monday night of this week I was downtown, there were 1200 people in attendance. This was the fourth Reading Recovery Conference. This activity began six years ago, here on Campus. It began with an investment by you the Board. We brought to this campus a distinguished visiting professor from New Zealand. A woman, Marie Clay, who had begun over there to test out an idea about saving kids when they were very young, not allowing kids to fall behind. The basic concept of Reading Recovery is that we take the very worst readers, the very poorest readers in first grade and work with them one on one. It is a very costly project in the front end -- working with them one on one to bring them up to the average first grade level by the end of the year. If we have done that then they are discontinued -- we take them out of the program. Our success rate, over four or five years is very, very high. And the interesting part is that they have a little more experience in New Zealand, so they have longitudinal data there. Once we can bring kids up to that level, they don't slip. Some of them will because obviously you are going to have some very low ability people in that group. But the other programs of remediation in reading haven't worked very well. You keep providing remedial work on top of remedial work every year and they just keep falling farther behind. So the intent here is to take those first graders and work very intensely with them. It has really caught on. We received some funds after Marie Clay left from the Jennings Foundation to support an experimental effort with Columbus Schools. We began by preparing teacher leaders who will go back into their schools and work with teachers. The Legislature provided funding for the first time in '85-'86 and we prepare teacher leaders here at Ohio State who in turn, as I said, go out and work in their own school systems.

So we now have 23 sites across the State. During the last biennium the Legislature allocated \$1.5 million to this effort. Most of it going to the schools to release teachers so that they could come in here for study and to release them from some of the responsibilities on the job. We obviously get some support here. The State Board of Education for the next biennium is requesting \$7.6 million. The State Superintendent from Illinois has been over here and he thinks that he is going to out Reading Recover Ohio. We have a big jump on him right now, but Illinois is moving in very, very rapidly. We have two faculty members here from the University of Illinois who are going to be here all year. We have four teachers from the Chicago Schools here with us all year and they will begin over there next year. But as I said, we have about a four year lead on them right now.

We prepare about twenty teacher leaders per year. There are over 800 first grade teachers in Ohio who are now prepared to be Reading Recovery teachers. We have had over the last three years faculty members from fifteen universities here. And they come and spend a whole year with us. They are not registered for credit. Most of these people have degrees, but they work here and everybody in training works with a first grader. I was mentioning to my colleague over here, Dick Anderson is the head of a

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

very, very large funded project in Illinois -- the Center for Reading Instruction. He is also on the evaluation team for this enterprise. When he came over here three years ago, he made a speech at the very first Reading Recovery Conference. He indicated a lot of skepticism. He is now preparing to be a teacher leader. He is doing it in the Chicago Schools and every day he works with a first grade student. Which is what we expect of everyone preparing to be teacher leaders.

We now have gotten two major grants to supplement -- we have always had some evaluation funds from the State Department of Education, but we got a major grant last year from the MacArthur Foundation. Tom Tobin was here and watched some of this in action and it was a fascinating experience for the person who came down from Chicago. We got a federal project and we got some major MacArthur Funds to do more research associated with this particular activity. Just published is a monograph on Reading Recovery that went to every chief state school officer and probably to most of the superintendents in the country and I expect we will be plagued with calls from here on in. But the enterprise is growing. As I said we have had university people here from outside of the State and from inside Ohio who have spent the year with us. That is increasing because we have a national defusion project that will support some teachers coming in here.

The other activity that I want to spend a few minutes on is the Holmes Group. About five or six years ago, a number of deans from major research universities got together with two goals in mind. One is to be involved in the major reform of teacher education and at the same time to, as best we could, reform the teaching profession. These are major research universities. I was asked to serve on the writing team that prepared the first document and I now serve as the Vice President of the Holmes Group and I coordinate the Midwest Region, the nineteen universities in the ten state midwest area.

There are five goals -- I will only talk to two of them. The first is that of making the preparation of teachers more intellectually sound. It involves extended preparation, it involves building a program for teacher education on top of a liberal arts degree. The activity going on right now within our University is very, very supportive of where we want it to be. This works easily in our traditional secondary academic areas like mathematics and English. It doesn't work quite so well in science or in social science, because teachers out there generally teach a range of subjects, they just don't teach physics. They are very apt to be teaching physics and chemistry, especially in the smaller schools.

There were some real problems. Our faculty in Elementary Ed were very much concerned as to how they would proceed. We now have the third group of thirty students going through -- all of whom had degrees in a variety of areas. The faculty there are believers -- if they could, they would like to stop with undergraduate students right away. This year we -- without any publicity at all, we have not written anything about it to publicize it -- we had 275 applicants for thirty slots. We have an attorney; we have a Ph.D., in that group; most of them are baccalaureate degree holders. They are generally under thirty, most of them are twenty-three, twenty-four years of age. They have gotten a degree, most of them have gone out and worked for a little while. They are not brighter, but they surely are more mature and the faculty love them. And the hiring agencies do too.

So, that is our experience with post-bacs. It is a bit of a problem, because many of them come in without adequate preparation in mathematics or science, so they end up taking a lot of undergraduate course work in addition to their pedagogy courses. We will be

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

communicating to students the kinds of preparation they should have if they want to come in and move through the program without this remedial kind of activity.

The second of the five goals, and the last one I will talk about, is is that of connecting better to the schools. We are working with area schools now and setting up what we are calling professional development schools, built on the model of the teaching hospital. And there will be a lot of contribution by our colleagues in the schools. There are 97 universities in the Holmes Group right now and the organization is in its third year and alive and well.

In the strategic plan for the College that we submitted to the Provost's Office a few weeks ago, we identified six major targets: we want to increase the level of research activity; we want to put our emphasis on the impact of research in educational problems -- we want to take on the tough topics, we want to deal with dropouts and at-risk kids and changing technology. We will continue emphasis on our Ph.D. and M.A. programs. We have an M.Ed. degree on the books, we will use that as a vehicle for our post-baccalaureate Teacher Ed -- our Holmes-type programs. And we will, of course over the years, reduce our undergraduate programs as those graduate programs are growing.

We will continue our international efforts. We want to maximize impact on Ohio State and on humankind around the world. We want to concentrate ourselves. We have had a history over the years of kind of having a shot gun approach. We have little kinds of activities going on in a lot of places. We have had some major, major service projects. I co-directed what, I guess, turned out to be a \$10 million Nigerian Ed project, where we had students here for about 6 or 7 years, at least. We don't want to do that again, that was just too much -- it was too much one way -- too much service delivery. We want to get involved in activity where students and faculty are exchanged. Where we learn from the experience, not just delivering services. And we would like to concentrate in a smaller number of places.

We are the College of Education and we are really concerned about high quality instruction, so we want to spend a lot of our attention on that. We have two major funded research projects now from the Apple Corporation, creating the Apple Classroom of the Future. And we have a faculty member in special education doing some very interesting work with robotics and how robotics might be used with multiply handicapped kids.

The last on our list and maybe the most important is our minority recruitment programs. As I expect you know, there are a decreasing number of minority, especially black minorities, in the K-12 classrooms. Currently across the country, and now I am dealing with all minorities, almost 25% of the students in K-12 schools across the country are minority students. The growing population, of course, is the Hispanic population -- not in this area but clearly in the South and the Southwest. Currently, about 12% of the teachers are minority. The projections are that within five years it will be over 30% of the students will be minority and the teaching population might be down to as low as 5%. It is a very, very serious problem so we need to attend to it. We are doing a little bit better in our post-bac programs than in our undergraduate programs. We have a better percentage of black minorities in the post-bac programs than in undergraduate, but it is still far too small.

A number of the leaders in some of the black colleges have, in the recent past, been discouraging students from going into Teacher Ed. The President of Wilberforce was on a talk show here a year and a half ago and she was very clear and she said she would

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson: (contd)

not encourage the talented young minority students to go into teaching, because they have many more opportunities available to them. Obviously, in the past teaching has been open to minority students, or at least for a long time here. And we have gotten more than our fair share. Now, we are in very, very tight competition for them and in the long run most of the people, most of the black leaders understand the dilemma about not having some of those people in the classroom, especially in classrooms where kids come from lower social economic levels.

Well, I'm going to stop there -- I have been rambling and I apologize for that. If there are questions, I would try to respond.

President Jennings:

A very thorough report for an exciting College.

Mrs. Bowser:

The Holmes Group. I know, Don, when you started you talked about no longer issuing a baccalaureate degree. I don't know where you are in that progression --

Dean Anderson:

Let me try to do that in a hurry if I can. We have had a real dilemma here with the Regional Campuses, because the Regional Campuses, as you may know, all have four-year teacher education programs right now. They are very dependent on those four year programs for a number of reasons, not the least of which is financial. Also, it is a strong tie into the communities through those programs and they recruit heavily in their community. So they want to maintain good relationships.

So we began exploration and Myles appointed a committee chaired by Joan Leitzel. We began exploring this a year ago of how we could deal with Regional Campuses. And the solution to the Regional Campuses seems to be a reasonable one for the way we will work in many of our programs on campus. We will maintain our baccalaureate degree in education. We will have a bachelor of science -- and let me stay with Elementary Ed for awhile. We will, down the road someplace when we can make this transition, have a Bachelor of Science in Education, but it will be a non-teaching degree. It will not lead to certification. Most of the course work, all but probably 20 or 30 hours will be in the Arts and Sciences. Right now there is a requirement for teacher certification in elementary that students have to have areas of concentration. Well, the major/minor doesn't work very well, because elementary teachers teach in about five or six different areas. So we will have a major concentration in one of those areas, but it will be like kind of a short major and maybe about four minors that these people will take. It will crowd them to do that in four years. A very modest amount of education. We will probably have some field experience and maybe some of the experience in education will be foundational, like take a course in sociology of the family. Some in the College; most of it outside.

Most of my faculty colleagues -- in probably all except English and mathematics where we just want to get rid of the undergraduate degree entirely. We know there are plenty of people to draw from out there and maybe in foreign languages as well. But in the social studies, as I said, we have the same kinds of problems. The teachers go out and they teach political science, economics, history, anthropology, and psychology. And maybe, if we can, it would be my preference to get out of the business, but we will not do

**REPORT ON THE COLLEGE OF EDUCATION (contd)**

Dean Anderson: (contd)

away with those degrees right now. We will have something like a pre-education baccalaureate.

Mrs. Bowser:

So you do both?

Dean Anderson:

We will do both.

Mrs. Bowser:

All right. Now my other comment was about Reading Recovery, which I am familiar with and I think it is a phenomenal program. What about, in addition to reading, doing a similar kind of program in math or science?

Dean Anderson:

It is a different kind of problem, I think, Mrs. Bowser. The study that was sited a couple of days ago -- the very poor showing that our students made is in part a reflection of the kind of people that we attract into Elementary Ed. We are attracting people who have great interest in reading. It is easy to talk, I mean -- there are 2,200 people downtown right now and they are excited about what they are doing because they are dealing with children's books and reading. These kinds of people are also strong in the social sciences, but they are not strong in math and science. And I am really concerned about that. Now, I am speaking of the general population. I think we attract more able students here, but if you take a look at all of the institutions that prepare elementary teachers -- when I said over fifty in Ohio prepare teachers, they all prepare elementary teachers. And some of them are very weak. They come in with very, very poor backgrounds. They know enough mathematics to teach mathematics, but it is the affect. I think they don't care about it, they are a little bit frightened by it, and it is very easy for that to be transmitted to kids. I am convinced that is a major problem.

Mrs. Bowser:

You don't think that children could be served by having a special program in math?

Dean Anderson:

I'm afraid not. I think that we are going to have to deal with it differently. We are going to have to somehow deal with special instruction, I think. We are going to have to break up a little bit, I don't want to do away with it entirely. The single classroom teacher who has control of all of a kid's experiences from grades 1-4. We are going to have to have a little bit of specialization there. I am not optimistic that we are going to be able to attract a lot of people with strong science and math backgrounds into education because of the great salary differentials. These people can go into other areas and make considerably more money.

Mrs. Bowser:

That is an interesting perspective --



**REPORT ON THE COLLEGE OF EDUCATION (contd)**

Dean Anderson:

It is a staffing problem, I am convinced.

Mrs. Bowser:

When you sited all of the honored persons that have graduated from the College of Education, you didn't mention my name.

Dean Anderson:

Or your daughter!

Mrs. Bowser:

My daughter, that's right!

Mr. Kessler:

Shirley, I thought that there was some question whether you graduated!

Mrs. Bowser:

I told you I wasn't an honor student, I didn't say I didn't graduate.

Dean Anderson:

Let me make it up by giving you a copy of a \$19.00 monograph -- how's that?

Mr. Teaford:

Again, with the Holmes Group -- in five years what do you anticipate is likely to be your M.A./B.S. mix? Is it going to be --

Dean Anderson:

I would say, I don't know what the numbers will look like, because we are really trying to work that out. We are fully committed to generate as much funds for this University as we are generating right now. We are not going to do anything crazy that is going to decrease tuition or subsidies coming into the University. We have an extended meeting coming up Tuesday of this week with a representative of the Provost's Office regarding that. The baccalaureates that we will provide -- we have two programs in physical education that are non-Teacher Ed. We have a very small recreational program that I think we are going to do away with. It is a very weak program right now. We also have a program in exercise science. A baccalaureate program which we will maintain. Now, that is not Teacher Ed. The rest of our programs, except for this large service compliment over there, are education related.

So, I really can't answer the question, Joel. Our bread and butter will be, of course, the post-baccalaureate, Holmes-type, masters degree program in Teacher Ed.

Mr. Teaford:

Do you expect that to be the majority?

## REPORT ON THE COLLEGE OF EDUCATION (contd)

Dean Anderson:

That will be the majority, yes. We will keep the Ph.D. enrollments not any higher than they are right now. One of the concerns we had, of course, is how we are going to support all of those graduate students who now hold GTA positions. They will not be able to play the same kinds of roles and that is one of the reasons, again, why we're seeking outside fundings so we can attract the very best in here.

Mrs. Bowser:

Thank you.

Mr. Immke:

Any further questions? Thank you, Dean Anderson.

Dean Anderson:

Thank you, for the opportunity.

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## RESEARCH FOUNDATION REPORT

Mr. Barone:

Mr. Chairman, I would like to report on the Research Foundation grants and contracts for the months of November 1988 and December 1988 that are shown in the Board Agenda book. There are 177 awards listed for the two months which provide a gross income of \$18 million.

Funding for the first half of this fiscal year is 22% ahead of the same period last year. Federal funding is up 26% with increases from most agencies. Funding from Industry is also up significantly with a \$2.2 million grant from Cray Research, Inc., to the Ohio Supercomputer Center accounting for much of this. Department of Defense awards are up largely due to a fear that there will be another DOD freeze. Program managers are trying to commit the money before this happens. Department of Education funding is down and here we see more clearly the effects of our loss of the National Vocational Center. National Science Foundation funding is down but only because of timing in awards. There is some speculation, though, that the big NSF Science and Technology Centers might reduce the money available for smaller projects. A number of big NIH awards has resulted in a substantial increase in Health and Human services funding.

Some highlights of awards are:

\$200,000 from Health and Human Services to Professors Chen, Guthrie, and Li to train Southeast Asian immigrants in the Franklin County area. This is for the purpose of exposing them to wellness techniques or health techniques.

\$134,000 from the Department of the Interior to Professor Bossler of the Center of Mapping for Digital Graph Enhancement.

\$85,000 from the NIH to Professor Litsky of the Department of Surgery to investigate Bone-Cement Biomechanics.

## RESEARCH FOUNDATION REPORT (contd)

Mr. Barone: (contd)

A few highlights of these research projects. I thought the most important one was the Southeast Asian population. It is the fastest growing culture in this country. They are also at an unusual higher risk for high blood pressure and heart disease. However, they have little awareness of prevention or treatment measures. This projects brings together faculty in medicine, sociology, anthropology, and health education to train Southeast Asians in health techniques. It is unique in its cultural sensitivity. The researchers on this project are becoming internationally known for their expert knowledge in this field. The award they received is one of the largest granted by this agency.

Another one for the \$85,000 is the Bone-Cement Interface Biomechanics in the Department of Surgery given to Alan S. Litsky. The most frequent postoperative complication of cemented total joint replacement procedures is loosening of one or both components. The loosening process initiates by resorption of bones at the bone-cement interface. The hypothesis for this investigation is that the resorption is due to excessive local contact stresses which occur due to the geometry of the interface. This research will establish a firm experimental foundation for the contact stress hypothesis of loosening.

Dr. Tzagournis, would you like to highlight on the medical event?

Dr. Tzagournis:

I think you have done that very well.

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## HOSPITALS BOARD REPORT

Mr. Teaford:

Mrs. Bowser is going to let me do the talking today. There has been a Board meeting and an Executive Committee meeting of the Hospitals Board since we last met. At the December Board meeting, Dr. Clausen announced the new Medical Staff Officers: Dr. Bill Smead is the new Chief of Staff, and Dr. Bill Bay the Chief of Staff-Elect.

We heard a number of reports as we always do and did approve advertising for bids on the Dodd-Davis Interface Project and some patient unit upgrades and remodeling.

At the January Executive Committee Meeting, we heard a significant report from the Clinic Task Force on ways in which we can improve the delivery of services in the Clinic area. Everything always seems easy until you hear a report like that of the incredible components that go to make up the way our Clinics operate. So, it is not going to be something that we are going to be able to do overnight, but I think it is something that the Hospitals is clearly committed to advancing.

We did approve a revised budget. The principle reason the budget was revised was because, of course, we do not have a cancer hospital open and as a consequence we have a far better economic picture because it is not open.

We also approved, as subject, obviously, to the approval of this Board, the purchasing of a lease hold interest in the Beechwood Medical Center. And Dr. Kramer announced the formation of a Task Force on Nursing. Again, one of our very significant problems is the Hospitals. The problem is that we do not have enough nurses and indeed we have

**HOSPITALS BOARD REPORT (contd)**

Mr. Teaford: (contd)

closed a few beds because we do not have enough nurses. So as we all know, this is a problem that is not peculiar to Ohio State's Hospitals. In fact, we are probably better off than most hospitals, because for one thing we pay more. But nevertheless it is a crucial problem which this Task Force will address.

One other thing that Mr. Nichols did not add to my notes. As you know from the agenda, we will be appointing a new Director of the Hospitals. But I want to say that that Director will find it a far easier task because of the absolutely superb job that Jim Nichols has done in operating the Hospitals in the interim. It just cannot be over emphasized how well he has done and I think we owe him a great debt for that service.

Mrs. Bowser:

I certainly concur on that.

Mr. Teaford:

One other little thing that is my debt to our immediate past Chairman, Mr. Redman, I have, as I promised him I would, set with the Billing Committee. The one that is going to get us a unified bill in the year 10,000. It is indeed making progress. And I think that the difficulty now is how all of the medical groups will govern such a program. They have indeed been directed to come up with a method of governing that and there were certainly suggestions that they had better. I think that once the governance is in place that that will be an easy task to complete.

Mr. Immke:

I'm sure that Mr. Redman will be encouraged by that.

Mr. Berry:

Why don't you tell them if they don't you are going to bring Mr. Redman back as a special advisor to see that they do.

Mr. Teaford:

Actually, I instilled enough fear just by myself, without even having to do that.

President Jennings:

On the nursing shortage, we have now had four straight months where the net change in nurses is positive. Not positive by a lot, but we are making some considerable progress on that issue. We do have to keep moving forward. We are gaining more than we are losing. So there is progress being made, but it is a national problem and our salary and benefits is helping considerably on that. But it is a tough one to get going.

Mr. Immke:

Any questions? Thank you, Joel.

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## STUDENT TRUSTEES

President Jennings:

Thank you, Mr. Chairman. Let me deviate one item from the agenda. Very late this morning Governor Celeste informed the University that he has named two students to serve on the Board of Trustees of The Ohio State University.

Sophia Lorraine Paige, a second-year student in the College of Medicine, from Columbus, Ohio, will serve a term expiring May 13 of this year. And I might add what we have asked the Governor to do is then to reappoint that person for a full term. The Governor is not under any obligation, of course, to do that, but that it is a phase in. The second person is Laurel Ann Davis, an honors student pursuing a Bachelor of Science degree in psychology, will serve a term ending May 13, 1990. She is from Tipp City, Ohio.

As you may remember, legislation calling for student membership on the Board of Trustees was signed by Governor Celeste April 26, 1988. I might add, a rigorous application and selection process was developed by the leadership of the three student government organizations at Ohio State, and five candidates were recommended to the Governor in mid-December for his consideration.

I want to thank and commend the leadership of those organizations -- Steve Dibert, President of the Inter-Professional Council; Roger Musgrave, President of the Council of Graduate Students; and Athena Yiamouyiannis, President of the Undergraduate Student Government. I want to thank them for all of the work they have done in bringing together a list of five outstanding people and I am absolutely certain these two will serve this Board well.

As an antidote, one of the members of the Board of Regents was present in the interviewing process for all the student candidates and the Governor's Office throughout the State and that individual was extraordinarily complimentary about Ohio State's candidates. We expect them to be the best, but it is nice to hear that confirmation that they are the best.

Unfortunately, this announcement came this morning so we couldn't have them here. We will have them here at our next meeting. And hope that that goes well, I am sure it will.

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## REPORT ON EARLY RETIREMENT

President Jennings:

Three years ago the State developed a process in the retirement system where institutions could buy up to five years of retirement credit for employees of the University. There are a variety of rules associated with that buying depending on age, length of stay, and the number of years one has been in the system, and that was in enabling legislation.

We instituted this, I think, three years ago for the faculty and two years ago for the staff. That program that we instituted three years ago for the faculty and staff has now expired and this year we will want to consider whether or not to renew that program either as it is or with any modifications. I want to bring that to you so that you can be thinking about the activities there. As you heard this morning in the Financial Report, the program on an economic basis is clearly to this point a success. Roughly, 1,400 people are taking

## REPORT ON EARLY RETIREMENT (contd)

President Jennings: (contd)

advantage of this, a very large cost associated with it, but also a very large return. We expect eventually, as this has gone through, that the average pay back to the institution will be about 2 1/2 to 3 years. Obviously, we can't absolutely tell that right now depending on who gets replaced and as to what salaries, but clearly there is enough leeway where it looks like it is an appropriate economical thing to do.

Now, when we talk about renewing it we've got to talk about, I think, several aspects and we will look into detail on it. I would like your advice if there is anything else that we ought to look at. Obviously, economics -- as I say, they look good right now, although, as you also noted you have heard some cash flow problems and we have to deal with those. But economics becomes a part of it. In fact, the quality of the institution also becomes a major portion. Losing 1,400 of our long-time, fine people is a difficult thing for the institution to swallow. We have to evaluate those losses in the context of the institution as to whether that was appropriate. In the same context, it is a marvelous benefit and for the people still here it is a marvelous thing to be able to look forward to, to have that benefit available. Hopefully that will keep a lot of young people here at Ohio State for a lot of years even though they may have other opportunities elsewhere.

We have to look at how we might handle individual departments that have particular problems. For example, I think, in Veterinary Anatomy we had eight out of ten of our permanent faculty retire this year. Institution-wide that is not a major affect, but in a particular area like that it is especially hard. We also have to look at this in the context of the fact that with staff, now, mandatory retirement is gone and with faculty it will be gone by 1992. We have to deal with what the projections are and what we think right now is that the we have gone through the bulk of the retirements and we would not have the massive numbers of retirements in the future that we had this time. You will notice on the Personnel list, for example, there are some 98 - 100 Emeritus Titles. That is all a result of the retirements that took place in December.

We will be coming to you with this as we go, but if there are any comments that you have now or in the future, please let us know.

Mr. Teaford:

How many of the 1,400 were faculty?

Mr. Ihrig:

Four hundred and forty-six.

Mr. Teaford:

One of the senses that I had with the way it was done, this system of having it expire every so often, is that there is the psychology that it will never happen again and I better retire now. I almost wonder if we would be in better shape with that being a permanent benefit of the University and then we sort of have an even impact in terms of this. A number of persons asked me directly did I think this was ever going to happen again, because if I had said I didn't think it was going to ever happen again, they would have quit on the spot. So, I think, that is one of the reasons we had such a high number. There was a certain feeling that maybe that opportunity wouldn't pass again.

**REPORT ON EARLY RETIREMENT (contd)**

President Jennings:

I don't think there is any question. As you recall the key thing for making it temporary of course is not the long-term economics, those look good. It is the short-term cash flow. When we asked Weldon to come up with \$54 million, that is the one-time buy out. If that gets excessive, then we need an ability to shut it down, but not necessarily permanently. That is obviously something that we have to --

Mrs. Bowser:

It impacted the Hospitals' budget, too, if you remember.

Mr. Teaford:

It impacted everything.

President Jennings:

At the Hospitals the accountants are requiring us to charge this off all in one year, even though STRS and PERS allow the payment to be made over a five-year period. But the interesting thing and the evidence on this is it is worthwhile. Every time I offer to have the institution pay the cost of the early retirement, I get a very quick reject on that. Because the deans and the department heads know that they are going to be able to get the savings and keep that savings associated with it. But, it is a marvelous benefit and the economics are there, but the quality of funding --

Mrs. Bowser:

What is the time frame for decision on this?

President Jennings:

This summer.

Mr. Scott:

Mr. President, just one reaction to Mr. Teaford's comment that has to do with whether you make it permanent or not. As indicated, one of the things that you wanted was the flexibility. As you know, anytime you implement a program that people think is with perpetuity and you try to change it or to get rid of it, they perceive as a take back. So having it over a period gives you flexibility. And more importantly, looking at the demographics the University's faculty and staff now, the average age is probably under fifty. So, the bulk that the President is talking about went out last year and I would suspect a great many of them would have gone in any event, because they have the large number of years accumulated in the system.

President Jennings:

We also have, Scottie, a large number of people who went into this retirement system when they were students. That doesn't happen any more. This happened way back in the early '60's. So you have some people that are 60 years old with 40 years time in the retirement system. And that is at 80% of their final years pay.

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## DEMOGRAPHICS

President Jennings:

If we could then for a moment put on our long-term hat and talk about the demographics that we are facing as an institution over the next, roughly, fifteen years. As we begin getting into discussions about the long-term mission and activities of this institution, I would like to start today with a discussion about what our market looks like for the next several years.

I will start that discussion by noting first of all that enrollment predictions for higher education historically have been notably bad. In the Student Affairs Committee this morning we were talking about the reputation of a Morrill and Lincoln Tower. We were talking about how that is improving and so forth. If you were to look at the plans of the University that are sitting around from the early 1960's, you would find that all along Stadium Drive were a series of towers, like Morrill and Lincoln Towers. There are West Campus plans with thirteen additional buildings out there, all to house this huge surge that was being projected for Ohio State in the early '60's, to an institution of 100,000 based on a whole lot of things, and of course never happened. I think there would have been seven of those towers.

Probably the only characteristic that can be described about enrollments is that they are counter cyclical. Nationwide and generally locally, they go up during recession times and tend to decline during boom times. That is very, very important for us to note that for the State of Ohio. The best explanation of the reason they go up generally in recession times is that the opportunity cost of going to college, namely the other job, the job one would have had had they not been in college, that opportunity's costs goes down and makes college more expensive when there is unemployment and it goes up in times of recession. That is important for Ohio because Ohio's economy is changing radically right now and the value of education is becoming very different.

The second thing is that Ohio State is in an unusual situation where we have an enrollment cap placed on us by the General Assembly and we are at that cap today. The enrollment cap is 40,000. They ask, "Well, how do you get the 58,000?" That is because there are several exceptions, health sciences, agriculture, the regional campuses and so forth. But we are essentially at that cap today. That is important in the context that last year, for example, we got roughly 19,000 applications to Ohio State, with a class size projected at 6,500. So, we are way over the amount of students that we can handle. The reality probably is that there is zero risk that enrollment will decline over the next fifteen to twenty years, because we are so far above demand right now. Nevertheless, the characteristic of that student body is going to be affected very much by the demographics.

The key variable, of course, is the number of high school graduates, and that is pretty easy to project right now. The U.S. experienced, as you all know, a baby boom after the War. That baby boom officially ended, from a college point of view, in 1979. When I say officially ended, that is when the number of high school graduates began to decline. And nationally the number of high school graduates will continue to decline until 1994. When 1994 arrives, the children of the baby boomers will begin to arrive on campus. And as you see from that chart, there is a steady progression upwards in the number of high school graduates through the year 2000 into the 21st Century. Nationally, that characteristic is there -- a continuing decline and then a huge increase again after 1994.

In Ohio on the other hand, the pattern is roughly the same, but the increase after 1994 does not go nearly as high as in the United States. In fact, we will be down 14% in the number of high school graduates by the year 2004. So that Ohio's effect from the demographic echo is not going to be there.



### DEMOGRAPHICS (contd)

Mrs. Bowser:

And that is because people are leaving the State or --

President Jennings:

People leaving the State because of the State's economy, the declining and the aging of the State's population. The only thing that could begin to change this would be some big population growth that would bring on a great deal of young people. These projections on high school graduates are relatively accurate, because these people have already been born by and large.

What effects that? Probably the biggest effect in Ohio is the initiatives that are being taken now in the economic situation where the percentage of youngsters going on to college is increasing rapidly. Historically, this State has been among the lowest in terms of students graduating from high school and going on to college. Historically we have sent about 43% of our high school graduates on to post-baccalaureate education. The national average historically has been 53%. We are about 37th in the nation, this is depending on how you count, in terms of our percentage of the applicants that go on to college. The best explanation that people can come up with is the fact that this State has been characterized as a heavy industry state. For the jobs available and the income available from those heavy industries, whether it is steel, auto, rubber, or whatever, those income opportunities are so much better in this State than they have been elsewhere. There again, the counter cyclical nature of enrollment. Remember when we were talking about a decline in a number of high school graduates from 1979-94, enrollment not only at Ohio State hasn't declined, but across the State enrollment in college has not only not declined, it has increased about 1% a year since that beginning decline took place. The other thing that is happening is that a much higher percentage of students are going on to college than has been the case in the past. So, I would expect Ohio to see a continued increase in the number of students going on to college. So, while the demographics are not favorable to us, the number of customers, if you will, will continue to rise over a long period of time.

In addition, State policy to improve -- when we talk about the overall variety of programs that we have, whether it is a reading assessment program being funded by the State that we were talking about this morning, or math placement where we are in virtually every high school in the State, or Ohio State out there, or Bowling Green out there recruiting students and giving them the information about the college -- the Governor and the General Assembly people mean it about getting the cost down in terms of going on to college, that all should all begin to force it on up.

Some other things that we need to be thinking about is continuing education activity. There is no question that the twenty-five to thirty-four year old category of population is increasing and is going to increase for several years to come. That is a large bulk for not only graduate education, but continuing education. As an institution, Ohio State is not a big continuing education institution. We have 7,000 continuing education students, but the Board of Regents' regulations close us out of a lot of continuing education that is done by Ohio University, by Miami, by Bowling Green.

Mrs. Bowser:

How do they close us out of it?

### DEMOGRAPHICS (contd)

President Jennings:

They simply prohibit us from offering those courses in Franklin County.

Mrs. Bowser:

I see. It says 7,000 students that we have in Continuing Ed, does that go against our quota?

President Jennings:

If it is after 5:00 p.m., it does not. The other thing that it is pretty clear is that in Washington national service is beginning to be an attractive policy. There is an awful lot of discussion on both sides of the aisle in Washington about some sort of mandatory national service bill for young people. Not military -- military could satisfy it, but a peace corp type of thing, or a whole variety of things. That discussion seems to be gaining ground. That of course would probably effect us in terms of enrollment in a negative way. One of the interesting phenomena right now is the average undergraduate student at Ohio State takes 5 1/2 years to graduate. Probably if you had a national service, that number would go down very substantially, because they are staying in longer. I don't think there is anything wrong with that because the education is broadening.

Graduate enrollment -- we expect to remain the same, although there will be a lot of shifts there and we are going to have to stay flexible. We talked about one this morning, in terms of our new programs in foreign languages and a major shortage in foreign language instructors. We will be changing our undergraduate curriculum towards science. That may have an impact on what Don was talking about this morning, of more interest in science and mathematics at the lower levels, and better training for science and mathematics on the part of our elementary educational teachers in that context. That is a longer term activity.

The other thing we should recognize is that in 1970 the typical college student was a male undergraduate between the ages of 18 and 24, attending full-time. In 1987, the typical college student was a female undergraduate with an increasing likelihood that she was over 25 and attending part-time. That is not Ohio State, but that is national and that shift is taking place in a very major way. Discussion?

Mr. Teaford:

Mr. President, in the one area that seems to defy the sort of recession driven model of why people come to college, is in terms of minorities it seems to me. Because, as I understand it, while Ohio has significantly greater number of minorities graduating from high school, except for last year, it is the opposite in terms of going to college. Do we have any sense of what makes that population deal with it differently?

President Jennings:

We think that our young scholars program is directly related to that. It is a whole combination, but summed up in a social attitude that a college education is either of no value or beyond the means of the community. And what we need to be doing is to be whether it is in the Mt. Vernon area of Columbus, or the black neighborhoods it is not just the Young Scholars Program, but getting an educational process of the value of a higher education and the fact that it is available, independent of financial means. But that is a problem that so far has not been solved. We are attacking it in that direction, but those are hypotheses.

**DEMOGRAPHICS (contd)**

Mr. Teaford:

As you know, in Columbus it is now the case that any graduate of the Columbus Public Schools can attend one of the institutions of higher learning in this County. Hopefully, those kinds of programs will do something to --

President Jennings:

That is right. Remember that when Don says 25% of the primary and secondary school population are minority what that means is 75% of our market is either female or minority. And that is a market that we are not 75% enrolled in right now.

Mrs. Bowser:

How do you think the demographics that you have presented will change the relationship between the number of undergraduate students we have and the graduate students we have? What do you see there?

President Jennings:

Well, as we reach that bottom in 1994 and we begin to bottom out -- not as much in Ohio, but I think it will parallel -- what that is going to start doing is pressing the capacity of our educational system in Ohio. We've got excess capacity in our educational system right now, but not a lot. Shawnee State is there and it's got some expansion; Ohio University, I think, is 5,000 below its enrollment ceilings, and so forth. As that takes place, this State is going to have to be thinking about how they add capacity to the undergraduate program. I think that Ohio State is at its limits in terms of ability to deal with more students. That is why I think the enrollment ceiling is a good thing. But, I would be very reluctant myself to see us moving away from an institution that is roughly two-thirds undergraduate.

Mrs. Bowser:

So would I.

President Jennings:

I think that all the higher education administration literature would say that if you want to be a great university, you've got to be two-thirds graduate and one-third undergraduate. I think historically that was probably correct. But I think we are going to recognize that a large undergraduate population today is essential to accomplish all three of the teaching, research and service missions, because of comprehensiveness, because of scale economies, and because of the diversity needs of not only an undergraduate education, but graduate education as well.

Mrs. Bowser:

So you don't see a necessary fluctuation in the relationship between undergraduates and graduates?

President Jennings:

Right now, I think, we are 43,000 plus or minus undergraduates, and 12,000 plus or minus graduate professionals.

### DEMOGRAPHICS (contd)

Mrs. Bowser:

And you are looking for the same ratios?

President Jennings:

I think we will be 43,000 undergraduates for the foreseeable future. I think that probably the time that we will test that is when our dropout rate stabilizes. That is going down right now. When that stabilizes and we find out what our future dropout rate -- and that is going to be several years before that stabilizes -- then we will be formally addressing that. But I think at this stage it is not there.

The other thing is to keep in mind -- the expansion of a graduate program is just not expensive, but it is a very, very long-term type of activity. But, there again it is one of our advantages over everybody else of being a comprehensive institution. We can shift within even though the totality doesn't change.

We were talking this morning, who would have thought ten years ago that I would be talking about shortages of language teachers. Who would have thought that one of the Provost's toughest issues is to accommodate the students demands for Spanish. Ten years ago, we were barely putting enough people into languages to justify having a Spanish department. But today it is just "boom." That's again our advantage, because those shifts come from within in a comprehensive institution. But if you are comprehensive, you can deal with that. But, if you are Johns Hopkins for example, you can't.

Mrs. Bowser:

They are dealing with it.

President Jennings:

Well, they are dealing with it in the sense of getting rid of 10% of their faculty. They're not going to fire them or anything like that. But, always note that in a University, one of the management principles that is fundamental is that you can tear down a department in no time, but it takes a generation to build it back up again. Ten years ago if we said, "we ought to wipe out Spanish because we don't have any demand for it," it would take a generation to build it back up again. That is one of the reasons that we are conservative about eliminating programs, because when Johns Hopkins cuts out 10% of their faculty in the liberal arts they are doing great, great damage to that program. They have a marvelous reputation.

Mrs. Bowser:

But they are also taking money from their medical field which is what they are noted for. Those persons are very unhappy because that is the amount of money they spend on research. So they are going to have to cut back their research.

President Jennings:

Johns Hopkins is a marvelous place, but it is small, not comprehensive, mostly graduate. But we don't have those overall enrollment risks, but we have internal enrollment risks. For example, in Dentistry today we are half of what we were five years ago.

### DEMOGRAPHICS (contd)

Mrs. Bowser:

Half? Why is that?

President Jennings:

We were at 220 in a class, we are at 108 or 107 right now. First of all it is an economic situation. One cannot make a substantial living in dentistry now if you're a young dentist. We have been cutting it back in terms of qualified applicants. We knew we were going to come down, it is all over the country, but we've cut it back in terms of qualified applicants. That let mixes change. And Dentistry is one of the major improvements in quality throughout the institution.

I think the key though is we don't have that enrollment risk that a Hopkins would have or that many of these other have. Ours is mixed --

Mrs. Bowser:

Well, it is manageable because of the mix.

President Jennings:

That is right. I am probably the only University President and Myles the only Provost in the country that really don't have to worry about enrollment in terms of quantity. Because with these declines an awful lot of folks are scrambling. Ask any youngster who is reasonably bright and who has gotten reasonably good test scores, ask them how they are inundated by schools saying we want you in.

Mr. Kessler:

My daughter has missed it by graduating too early.

President Jennings:

An honor student might be visited by a hundred different universities -- they are scrambling for that activity. It is also why keeping costs down is so important, too.

Mrs. Bowser:

Thank you, good report.

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### INVESTMENTS COMMITTEE REPORT

Mr. Kessler:

The Investments Committee with all in attendance met this morning. Mr. Al Rodack gave a report on the Endowment Investment performance through January 20 which shows a total value of \$259.7 million. The Investment Portfolio is current at 41% equities; 25% fixed income; 14% real estate; and 20% cash. Mr. Rodack also reported on the performance of the University cash investments which has been invested at a yield to maturity rate of 7.5% over the past 12 months ending December 31, with an average maturity of 2.8 years. This exceeds the Donoghue money market index yield of 6.37% over the same period.

### **INVESTMENTS COMMITTEE REPORT (contd)**

Mr. Kessler: (contd)

The Committee also reviewed the performance of the Endowment investment advisors through June 30, 1988.

The report of Ennis, Knupp & Associates along with comments by the Treasurer's staff were reviewed by members of the Committee. The principals of the Knupp firm will be on campus to meet with the Treasurer and his staff and the Investment Committee on February 20, at 1:30 p.m. Any interested members of this Board are also invited to attend.

The 2nd quarter preliminary report on the University's Capital Campaign shows total receipts and pledges of \$329.3 million through December 31. This December was the second largest December in the University's history, following the performance two years ago just prior to the implementation of the tax reform act.

That ends my report, Mr. Chairman.

Mr. Teaford:

That meeting would be here?

Mr. Kessler:

Yes.

(See Appendix XV for complete text of The Ohio State University Endowment Summary, January 20, 1989, page 727.)

(See Appendix XVI for complete text of the Recommendations from the Office of the Treasurer regarding the Ennis Knupp Report and the Investment Policy for The Ohio State University Endowment Fund, page 739.)

(See Appendix XVII for complete text of The Ohio State University Campaign, page 746.)

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### **ACADEMIC AFFAIRS COMMITTEE REPORT**

Ms. Casto:

This morning the Committee received a report from Provost Myles Brand regarding the work of the Special Committee on Undergraduate Curriculum Review and a model from a sub-committee in the Colleges of the Arts and Sciences dealing with proposals for the University's general educational requirements. The emphasis of these groups is on the development of basic skills in writing, data analysis and speech communication -- and simply put, speaks to curriculum changes effecting a liberal arts orientation. The current focus on campus is in the coordination of these goals with specific requirements for each major, a process which is expected to be completed in June with full campus implementation in 1990-91 academic year.

The Committee is excited about this activity and looks forward to the possibility of a more detailed report to the full Board from the Provost late this year. Are there any questions about it?

**ACADEMIC AFFAIRS COMMITTEE REPORT (contd)**

Mrs. Bowser:

Part of the problem with our new format is that you can't hear everything.

Ms. Casto:

That is true. But what is going on is really exciting. Of course, one of our biggest concerns is the expense of it, and our staff, and how it is all going to be implemented. But I'll tell you it could be one of the best things for this University and a model to follow for other universities. And I know it is really something that we all look forward to.

(See Appendix XVIII for complete text of Report to the Board of Trustees from the Subcommittee on Academic Affairs -- Undergraduate Curriculum Review, page 749.)

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Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY**

Resolution No. 89-71

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on December 3, 1988, as follows:

**AMENDED RULES**

3335-5-4810 Faculty hearing committee.

(A) Membership.

The faculty hearing committee shall consist of twelve tenured members of the regular faculty elected by the faculty council. Each elected person shall serve a four-year term as a regular member followed by a one-year term as an alternate member.

Balance unchanged.

3335-5-4816 Committee on women and minorities.

(A) Membership.

The committee on women and minorities shall consist of thirteen members.

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

(1) unchanged.

(2) Two staff members.

- (a) One classified civil service staff member appointed by the steering committee from a slate of two nominees provided by the staff advisory committee. The term of service is three years.
- (b) One administrative and professional staff member appointed by the steering committee from a slate of two nominees provided by the staff advisory committee. The term of service is three years.

(3) Three students.

- (a) One graduate student selected by the council of graduate students. The term of service is one year.
- (b) One professional student selected by the inter-professional council. The term of service is one year.
- (c) One undergraduate student selected by the undergraduate student government. The term of service is one year.

(4) Two administration members, non-voting.

- (a) The vice provost for minority affairs or designee.
- (b) The executive officer for human relations, or designee.

Balance unchanged.

**3335-9-10 Removal of entrance conditions.**

Entrance conditions assessed against students at the time of admission or transfer to a college may be removed by the vice provost for student affairs, when the dean of a college in which the conditioned student is registered has certified to the director of admissions that the deficiencies have been made up. The methods to be followed in making up entrance conditions shall have the joint approval of the director of admissions and the dean of the college concerned and, for undergraduate students, shall be in accordance with policies established by the council on academic affairs in consultation with the council on admission and registration. Removal of entrance conditions shall take precedence over the student's regular college schedule. If credits earned in the university are to be substituted for such deficiencies, the student must earn a grade of A, A-, B+, B, B-, C+, C, C-, D+ or D in courses approved to remove admission conditions. Five quarter credit hours and ten credit points shall be added to the graduation requirements of the conditioned student for each unit of entrance condition to be removed by this method.

**NOW THEREFORE**

**BE IT RESOLVED**, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.



**WAIVER OF PARAGRAPH (G) OF BYLAW 3335-1-08  
OF THE ADMINISTRATIVE CODE**

Resolution No. 89-72

Synopsis: The Academic Affairs Committee recommended the following Waiver of Paragraph (G) of Bylaw 3335-1-08 of the Administrative Code.

WHEREAS the Board of Trustees of The Ohio State University did, on January 9, 1976, amend paragraph (G) of bylaw 3335-1-08 of the Administrative Code to state that "buildings and structures shall not be named for any person who is an officer or employee of the University or the State of Ohio, but may be named for a person who has been retired or has otherwise left such a position for a minimum of three years"; and

WHEREAS the President wishes to recommend that Honors House, be named to honor Albert J. Kuhn, who retired December 31, 1988, as Director of the University Honors Program:

NOW THEREFORE

BE IT RESOLVED, That the applicable requirements of paragraph (G) of bylaw 3335-1-08 of the Administrative Code be waived so that Honors House may be named for an officer or employee of the University or the State of Ohio who has not been retired from such position for three years.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**NAMING OF BUILDING**

Resolution No. 89-73

Synopsis: The Academic Affairs Committee recommended the approval of the following naming of building.

WHEREAS this Board has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS during his 34 years at the University, Dr. Kuhn served as a faculty member, as Chairperson of the Department of English, and as Provost for the longest tenure of anyone in the past twenty-five years; and

WHEREAS Albert Kuhn's love of knowledge and learning and his loyalty to this institution are well-known; and

WHEREAS the President recommended, with the concurrence of the President's Staff, that Honors House be named in honor of and in tribute to Albert J. Kuhn who has been a role model for his faculty colleagues, a mentor for his students, and a most honorable and dignified leader for this community:

NOW THEREFORE

BE IT RESOLVED, That the above described building at 220 West 12th Avenue be named "Albert J. Kuhn Honors Hall" in honor of Dr. Kuhn.

**NAMING OF BUILDING (contd)**

Upon motion of Mrs. Bowser, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**DEGREES AND CERTIFICATES - WINTER QUARTER COMMENCEMENT**

Resolution No. 89-74

Synopsis: The Academic Affairs Committee recommended the approval of degrees and certificates for Winter Quarter Commencement.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on March 17, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Ms. Casto, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**PERSONNEL ACTIONS**

Resolution No. 89-75

Synopsis: The Academic Affairs Committee recommended the approval of the following Personnel Actions.

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the December 2, 1988 meeting of the Board, including the following Appointment, Reappointments of Principal Administrative Officials, Appointment of Chairpersons and Directors of Academic Faculty, Departments, Program, and Schools, Reappointment of Chairpersons of Departments, Leaves of Absence Without Salary, Professional Improvement Leaves--Change in Dates, and Emeritus Titles as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved December 15, 1988, by the Hospitals Board be ratified.

## PERSONNEL ACTIONS (contd)

### Appointments

Name: R. REED FRALEY  
Title: Executive Director/Assistant Vice President  
Offices: University Hospitals/Health Services  
Effective: February 27, 1989  
Salary: \$124,680.00  
Present Position: Executive Director of Presbyterian Hospital of Dallas (PHD)  
and Executive Vice President of Presbyterian Healthcare System  
(PHS), Dallas, Texas

Name: NOEL MAYO  
Title: Professor (Ohio Eminent Scholar in Art and Design Technology)  
College: Arts  
Effective: October 1, 1989  
Salary: \$90,000.00  
Present Position: President of Noel Mayo Associates, Inc.

### Reappointments of Principal Administrative Officials

J. LANCE KRAMER, Assistant Provost for Continuing Education, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

DONALD P. ANDERSON, Dean of the College of Education, effective May 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

LENA C. BAILEY, Dean of the College of Home Economics, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

### Appointment of Chairpersons and Directors of Academic Faculty, Departments, Program, and Schools

January 1, 1989 through June 30, 1989

Electrical Engineering	Robert J. Mayhan*
School of Health, Physical	
Education, and Recreation	Melvin L. Adelman*
School of Music	Donald Harris*
University Honors Program	Alan M. Hausman*
Zoology	Peter W. Pappas*

April 1, 1989 through September 30, 1989

Academic Faculty of Labor Education and Research Services	Susan L. Josephs*
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\*Acting Chair or Director

### Reappointment of Chairpersons of Departments

July 1, 1989 through June 30, 1993

ATI - General Studies	Clyde E. Opliger
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## PERSONNEL ACTIONS (contd)

### Reappointment of Chairpersons of Departments (contd)

October 1, 1989 through September 30, 1991

Linguistics

Brian D. Joseph

### Leaves of Absence Without Salary

VLADIMIR E. BONDYBEY, Professor, Department of Chemistry, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1989, to accept a position in the Department of Chemistry at the Technical University of Munich.

JOHN J. REAGAN, Assistant Professor, Department of Architecture, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1989, to continue in the development of his professional skills.

RAKESH V. VOHRA, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1988, to accept a Visiting Faculty position at the University of Pennsylvania, Wharton School of Business.

### Professional Improvement Leaves--Change in Dates

ALEXANDER DYNIN, Associate Professor, Department of Mathematics, change leave from Autumn Quarter 1988 and Winter Quarter 1989, to Winter Quarter, Spring Quarter and Autumn Quarter 1989.

C. WILLIAM MCCURDY, Associate Professor, Department of Chemistry, change leave from Autumn Quarter 1987, Winter Quarter and Spring Quarter 1988, to Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989.

### Emeritus Titles

ALLEN W. HALL, College of Dentistry - Administration, with the title Associate Dean and Professor Emeritus, effective January 1, 1989.

PHILIP W. MURDICK, Department of Veterinary Clinical Sciences, with the title Associate Dean and Professor Emeritus, effective January 1, 1989.

ROBERT G. WHITEUS, Department of Veterinary Clinical Sciences, with the title Assistant Dean and Professor Emeritus, effective January 1, 1989.

JAMES M. DOWDY, School of Natural Resources, with the title Assistant Director and School Secretary Emeritus, effective January 1, 1989.

JOHN L. CRITES, Department of Zoology, with the title Chairperson and Professor Emeritus, effective January 1, 1989.

URHO A. UOTILA, Department of Geodetic Science and Surveying, with the titles Chairperson and Professor Emeritus, effective January 1, 1989.

GEORGE P. CREPEAU, Department of Theatre, with the title Professor and Associate Provost Emeritus, effective January 1, 1989.

ROBERT L. BARTELS, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

## **PERSONNEL ACTIONS (contd)**

### Emeritus Titles (contd)

LEO E. BENDIXEN, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

MARY K. BEYRER, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

JOHN L. BLAISDELL, Department of Agricultural Engineering, with the title Professor Emeritus, effective January 1, 1989.

GEORGE G. BLOZIS, College of Dentistry - Diagnostic Services, with the title Professor Emeritus, effective January 1, 1989.

ODUS R. BURGGRAF, Department of Aeronautical and Astronautical Engineering, with the title Professor Emeritus, effective January 1, 1989.

HARRY R. CONRAD, Department of Dairy Science, with the title Professor Emeritus, effective January 1, 1989.

CLARENCE J. CUNNINGHAM, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

LUVERN L. CUNNINGHAM, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

JON S. CUNNYNGHAM, Academic Faculty of Accounting and Management Information Systems, with the title Professor Emeritus, effective January 1, 1989.

JAMES C. DONHAM, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective January 1, 1989.

WALTER F. ERSING, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

JAMES I. FREA, Department of Microbiology, with the title Professor Emeritus, effective January 1, 1989.

ALBERT A. GABEL, Department of Veterinary Clinical Sciences, with the title Professor Emeritus, effective January 1, 1989.

CHARLES M. GALLOWAY, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

GORDON E. GATHERUM, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

J. BRUCE GRIFFING, Department of Entomology, with the title Professor Emeritus, effective January 1, 1989.

FAZ HAGHIRI, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

MOHAMED Y. HAMDY, Department of Agricultural Engineering, with the title Professor Emeritus, effective January 1, 1989.

**PERSONNEL ACTIONS (contd)**

Emeritus Titles (contd)

E. LEONARD JOSSEM, Department of Physics, with the title Professor Emeritus, effective January 1, 1989.

EDISON L. KLINGLER, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

FELIX P. KOLLARITSCH, Academic Faculty of Accounting and Management Information Systems, with the title Professor Emeritus, effective January 1, 1989.

JULIUS P. KREIER, Department of Microbiology, with the title Professor Emeritus, effective January 1, 1989.

HOWARD B. KRIEBEL, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

MARION E. KROETZ, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

LEO E. LIPETZ, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

RONALD K. LONG, Department of Electrical Engineering, with the title Professor Emeritus, effective January 1, 1989.

JOEL H. MAGISOS, Department of Agricultural Education, with the title Professor Emeritus, effective January 1, 1989.

CHARLES L. MAND, School of Health, Physical Education, and Recreation, with the title Professor Emeritus, effective January 1, 1989.

THOMAS J. MCNUTT, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

WILMA K. MECKSTROTH, Department of Chemistry, with the title Professor Emeritus, effective January 1, 1989.

EDWARD C. NABER, Department of Poultry Science, with the title Professor Emeritus, effective January 1, 1989.

JEREMIAH D. NOLAN, Department of Psychology, with the title Professor Emeritus, effective January 1, 1989.

JOSEPH J. PARNICKY, College of Social Work, with the title Professor Emeritus, effective January 1, 1989.

TONY J. PETERLE, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

THOMAS E. POWERS, Department of Veterinary Physiology and Pharmacology, with the title Professor Emeritus, effective January 1, 1989.

GEORGE E. ROPP, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

## **PERSONNEL ACTIONS (contd)**

### Emeritus Titles (contd)

THOMAS D. STEVENSON, Department of Pathology, with the title Professor Emeritus, effective January 1, 1989.

THOMAS M. STOCKDALE, School of Natural Resources, with the title Professor Emeritus, effective January 1, 1989.

ALLEN L. ULRICH, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

BARRY D. VALENTINE, Department of Zoology, with the title Professor Emeritus, effective January 1, 1989.

ROBERT W. VAN KEUREN, Department of Agronomy, with the title Professor Emeritus, effective January 1, 1989.

WILLIAM W. WAYSON, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

LANSING E. WILLIAMS, Department of Plant Pathology, with the title Professor Emeritus, effective January 1, 1989.

VIRGINIA I. ZIRKLE, Cooperative Extension Service, with the title Professor Emeritus, effective January 1, 1989.

ROBERT B. ANDERSON, Academic Faculty of Labor Education and Research Services, with the title Associate Professor Emeritus, effective January 1, 1989.

DAVID H. AYERS, Department of Theatre, with the title Associate Professor Emeritus, effective January 1, 1989.

JOSEPH P. BROWN, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

RICHARD M. CAMPBELL, Department of Electrical Engineering, with the title Associate Professor Emeritus, effective January 1, 1989.

INEZ CARDOZO-FREEMAN, Center for Comparative Studies in the Humanities (Newark Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

NANCY R. CLENDENON, Department of Neurology, with the title Associate Professor Emeritus, effective January 1, 1989.

VICTOR D. COLOMBINI, Department of Geography (Lima Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

ROBERT S. CRAWFORD, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

ILSEDORE M. EDSE, Department of German, with the title Associate Professor Emeritus, effective January 1, 1989.

**PERSONNEL ACTIONS (contd)**

Emeritus Titles (contd)

DONALD D. HARPER, School of Health, Physical Education, and Recreation, with the title Associate Professor Emeritus, effective January 1, 1989.

ALBERT O. HUMBERTSON, Department of Anatomy, with the title Associate Professor Emeritus, effective January 1, 1989.

JAMES L. JESSE, Academic Faculty of Labor Education and Research Services, with the title Associate Professor Emeritus, effective January 1, 1989.

DONALD E. KIMMET, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

R. NED KRAMER, College of Dentistry - Pediatric Dentistry, with the title Associate Professor Emeritus, effective January 1, 1989.

DAVID R. MISKELL, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

R. DONALD MOORE, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

PHILIP D. MOORHEAD, Department of Veterinary Preventive Medicine, with the title Associate Professor Emeritus, effective January 1, 1989.

DEAN H. OWEN, Department of Psychology, with the title Associate Professor Emeritus, effective January 1, 1989.

WILLIAM B. PHILLIPS, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

GERALDINE G. PRICE, Department of Family and Community, with the title Associate Professor Emeritus, effective July 1, 1988.

JEANNE M. RUMBURG, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

EDWIN C. SHUTTLEWORTH, Department of Neurology, with the title Associate Professor Emeritus, effective January 1, 1989.

BENNIE L. WHITE, Cooperative Extension Service, with the title Associate Professor Emeritus, effective January 1, 1989.

TERESA F. BARNES, Department of Communication (Lima Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

RICHARD O. DAGEFOERDE, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.

WALTER M. ERICKSON, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.



## PERSONNEL ACTIONS (contd)

### Emeritus Titles (contd)

JAMES E. HENRY, Department of Agricultural Engineering, with the title Assistant Professor Emeritus, effective January 1, 1989.

PAUL R. HOTHEM, Cooperative Extension Service, with the title Assistant Professor Emeritus, effective January 1, 1989.

M. ELIZABETH LLOYD, Department of Art Education (Lima Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

THEODORE L. MOOR, College of Dentistry - Restorative and Prosthetic Dentistry, with the title Assistant Professor Emeritus, effective January 1, 1989.

JOAN L. SHARP, School of Allied Medical Professions, with the title Assistant Professor Emeritus, effective January 1, 1989.

LIDA E. WENZEL, Department of Romance Languages and Literatures (Mansfield Campus), with the title Assistant Professor Emeritus, effective January 1, 1989.

IONIA J. ZELENKA, Department of Theatre, with the title Assistant Professor Emeritus, effective January 1, 1989.

FRED B. BOMBACH, College of Dentistry - Diagnostic Services, with the title Clinical Assistant Professor Emeritus, effective January 1, 1989.

JOHN P. STARKS, School of Allied Medical Professions, with the title Clinical Instructor Emeritus, effective January 1, 1989.

FRANCES A. MCNEW, Department of Life Span Process, with the title Instructor Emeritus, effective March 1, 1988.

SHIRLEY A. BROOKS, College of Agriculture - Administration, with the title Assistant to the Vice President Emeritus, effective January 1, 1989.

DICKSON H. CALL, Instruction and Research Computer Center, with the title Associate Director Emeritus, effective January 1, 1989.

ALBERT A. FERDI, School of Journalism, with the title Manager Emeritus, effective January 1, 1989.

MERY L. GONG, Instruction and Research Computer Center, with the title Associate Director Emeritus, effective January 1, 1989.

STEVEN J. GYURO, National Center for Research in Vocational Education, with the title Associate Director Emeritus, effective January 1, 1989.

WILLIAM K. HARRIS, School of Architecture, with the title Administrative Associate Emeritus, effective January 1, 1989.

JAMES T. RUSSELL, Office of Student and Community Services (Newark Campus), with the title Assistant Director Emeritus, effective January 1, 1989.

JOSEPH F. STRANGES, JR., Office of Minority Affairs, with the title Program Director Emeritus, effective January 1, 1989.

**PERSONNEL ACTIONS (contd)**

Emeritus Titles (contd)

JAMES D. WAGNER, Instruction and Research Computer Center, with the title Manager Data Processing 2 Emeritus, effective January 1, 1989.

RICHARD L. WILLIAMS, Cooperative Extension Service, with the title Business Manager Emeritus, effective April 1, 1988.

Medical Staff--Appointments

DAVID A. PERDZOCK, M.D., Limited Staff, Anesthesiology.

MICHALEEN A. GRECUA, M.D., Attending Staff, Internal Medicine.

DANA J. SCHULTZ, M.D., Courtesy Staff, Pediatrics.

LARRY M. SHEPHERD, M.D., Courtesy Staff, Pediatrics.

YOUNG-MEE LEE, M.D., Courtesy Staff, Division of Emergency Medicine.

DANIEL M. DALUGA, M.D., Limited Staff, Division of Orthopedic Surgery.

AMAL K. DAS, M.D., Limited Staff, Division of Orthopedic Surgery.

SCOTT T. GHERINI, M.D., Limited Staff, Division of Orthopedic Surgery.

ANDREW P. HAKAKAS, M.D., Limited Staff, Division of Orthopedic Surgery.

JOSEPH R. DURHAM, M.D., Attending Staff, Division of Vascular Surgery.

Medical Staff--Reappointments

THOMAS H. COLEMAN, M.D., Courtesy Staff, Internal Medicine.

ROBERT P. MYERS, D.O., Courtesy Staff, Pediatrics.

J. BRADFORD JOHNSON, M.D., Limited Staff, Radiology.

CHRISTOPHER S. MORRIS, M.D., Limited Staff, Radiology.

JOHN W. MOORE, M.D., transferred from Limited to Courtesy Staff, Family Medicine.

STEVEN C. HIRSCH, M.D., transferred from Limited to Attending Staff, Division of Cardiology.

JERRY T. GUY, M.D., transferred from Attending to Courtesy Staff, Division of General Medicine.

DAVID C. BELL, M.D., transferred from Courtesy to Attending Staff, Obstetrics/Gynecology.

PATRICIA WONGSAM, M.D., transferred from Courtesy to Attending Staff, Physical Medicine and Rehabilitation.

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

## RESOLUTIONS IN MEMORIAM

Resolution No. 89-76

Synopsis: The Academic Affairs Committee recommends the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

### Roland Francis Bleiholder

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 3, 1988, of Dr. Roland Francis Bleiholder, Assistant Professor in the College of Dentistry - Restorative and Prosthetic Dentistry.

Roland F. Bleiholder was born on June 12, 1937, in Brooklyn, New York. He received his B.S. (Magna Cum Laude) from St. John's College, New York, in 1959, and his Ph.D. in Chemistry from The Ohio State University in 1965.

Dr. Bleiholder began his dental materials experience at the S. S. White Dental Products International Division of Pennwalt Corporation in 1970. He was Director of Research and Development there from 1974 until the time he joined the faculty of Restorative and Prosthetic Dentistry in the College of Dentistry in 1987. Dr. Bleiholder served as a consultant for Johnson & Johnson Dental Division, as well as Battelle Laboratories, Pennwalt Corporation and Deposito Dental Latorre in Bogota, Columbia.

Dr. Bleiholder's contributions to dentistry have earned him international respect and admiration from both dentists and dental researchers as well as from his many co-workers in the College of Dentistry.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### Roald Fay Campbell

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 19, 1988, of Roald Fay Campbell, Professor Emeritus in the Department of Educational Policy and Leadership.

Dr. Campbell was active in the education community for more than 60 years, specializing in administrative behavior, policy making, national influences in education and urban education. He wrote numerous books and articles on his areas of expertise as well as a family biography and an autobiography.

He was born December 4, 1905, in North Ogden, Utah, to Ulysses Fay Campbell and Pearl Ellen Wilson. He was raised in Ogden and Aberdeen, Idaho, and received a teaching certificate from the Idaho Technical Institute. Following a year of teaching and a 30 month mission from the Church of Jesus Christ of Latter-Day Saints, Dr. Campbell obtained B.S. and M.S. degrees from Brigham Young University. He later received a Doctorate of Education from Stanford University.

Dr. Campbell was Chairman of the University of Utah Elementary Education Department from 1942 to 1951, as well as Director of the University's William M. Stewart School, an institution for teaching elementary and high school teachers. Dr. Campbell was also a public school administrator in Idaho

## RESOLUTIONS IN MEMORIAM (contd)

### Roald Fay Campbell (contd)

and Texas. In a 13-year tenure at the University of Chicago, he was Chairman of the Department of Education, Dean of the Graduate School of Education and Director of the Midwest Administrative Center.

He joined The Ohio State University in the College of Education in 1952, and was the first Novice G. Fawcett Professor of Educational Administration. Upon his retirement in 1974, he was named Professor Emeritus. Following his retirement, he returned to Salt Lake City where he has been an Adjunct Professor at the University of Utah since 1975.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### Laurence R. Connor

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 17, 1988, of Laurence R. Connor, Instructor Emeritus in the Department of English.

Professor Connor was born December 19, 1901. He received his B.A. in Journalism in 1927 and his M.A. in English in 1961, both from The Ohio State University. He joined the faculty in 1960 as Assistant Instructor and was promoted to Instructor in 1966. He retired in 1972.

Before returning to graduate school, Professor Connor was Associate Editor of "The Richmond New Letter," a chief Editorial Writer for the "Columbus Dispatch," and the "Ohio State Journal," and an employee of WBNS Radio.

In his career as a teacher he was liked by his students and respected by his colleagues.

On behalf of the University community, the Board of Trustees expresses to the family its deepest sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### Wilfrid Raymond Foster

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 17, 1988, of Wilfrid Raymond Foster, Professor Emeritus in the Department of Geology and Mineralogy.

"Ray" Foster was born in Fredericton, New Brunswick, Canada, February 14, 1913. He received a B.S. degree in Chemistry at the University of New Brunswick in 1934, his M.S. degree in Chemistry from the Catholic University of America in 1936, and the Ph.D. degree in Geology from the University of Chicago in 1940. He was an Instructor in Geology at the Catholic University in 1940-1941, and Instructor in Mining and Ceramics at Pennsylvania State University in 1941-1942, and a petrographer at the Champion Spark Plug Company in Michigan from 1942-1952. He became Associate Professor at The Ohio State University in 1952 and was named Professor and Chairman of the Department of Mineralogy in 1957. He served in this capacity until 1972 when the departments of Geology and Mineralogy were merged. He continued as a professor in the combined departments until his retirement in 1979.

## RESOLUTIONS IN MEMORIAM (contd)

### Wilfrid Raymond Foster (contd)

Dr. Foster was a member of and elected to fellowship in the American Ceramic Society, the Mineralogical Society of America, the Geological Association of Canada, the Ohio Academy of Science, and the American Association for the Advancement of Science. He was elected and served as a Councilor of the Mineralogical Society of America from 1959 to 1961. He was a member of Sigma Hi, Phi Lambda Upsilon, Sigma Gamma Epsilon, and the Knights of Columbus, named in Who's Who's in America and American Men of Science, and was an honorary member of Keramos.

Professor Foster's teaching and research interests were in high-temperature phase-equilibrium studies in relation to petrology and technology but his expertise was broad enough so that he also taught a course on meteorites. Fourteen Ph.D. and 3 Masters students received their degrees under his supervision. He authored or coauthored nearly 50 specific papers and articles and was the recipient of NSF and other grants to support his research.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### Devon W. Meek

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 7, 1988, of Devon W. Meek, Professor Emeritus and former Chairperson in the Department of Chemistry.

Professor Meek was born on February 24, 1936, in River, Kentucky. His undergraduate training was received at Berea College where he completed a Bachelor of Arts degree in Chemistry in 1958. Subsequently, at the University of Illinois he received graduate training in Chemistry and completed the M.S. degree in 1960 and the Ph.D. degree in 1961. Upon graduation from Illinois, he joined The Ohio State University as an Assistant Professor of Chemistry, was promoted to Associate Professor and full Professor in 1966 and 1969, respectively. He assumed the Chairmanship of the Department in 1977 and then again in 1986. Upon his retirement in 1988, he was named Professor Emeritus.

Professor Meek became well known in the scientific community for his studies in the area of Inorganic Chemistry which focused on transition metal complexes with unusual coordination numbers. These included studies of phosphine ligands of the transition metal complexes as catalysts, their spectral properties, and their structural characteristics. During the course of his career, he trained 45 graduate students and 10 postdoctoral associates. His studies have resulted in over 160 publications in the chemical literature.

Professor Meek was recognized for his work with appointments as a Visiting Scholar at Northwestern University, as a Senior Research Fellow at the University of Sussex, and as a Guggenheim Fellow at Cambridge University and the University of California at Berkeley. He served as a consultant for Procter and Gamble Company, Shepherd Chemical Company, Argonne National Laboratories, and Harper and Row Publishing Company. He was also an active member of the American Chemical Society where he was elected as the Secretary of the Inorganic Division.

During his years of service as Chairperson of the Department of Chemistry, he was responsible for a major expansion of the faculty and the construction of the new chemistry building. He devoted significant effort to foster close ties between the Department and industrial corporations and established the successful Industrial Associates Chemistry Program.

## RESOLUTIONS IN MEMORIAM (contd)

Devon W. Meek (contd)

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Everett John Nelson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 29, 1988, of Everett John Nelson, Professor Emeritus in the Department of Philosophy.

Dr. Nelson was born on October 18, 1900, in Castle Rock, Washington. He received his A.B. degree (1923) and an A.M. degree (1925) in philosophy from the University of Washington. He also earned an A.M. degree (1928) and his Ph.D. (1929) from Harvard University. The next year he studied at Göttingen, Freiburg, and the Sorbonne as a Sheldon Traveling Fellow from Harvard.

Dr. Nelson then started his academic career in 1930 at the University of Washington, serving as Professor (1941-52) and as Chairman (1947-52). He joined The Ohio State University as Professor and Chairperson in 1952, serving as Chair until 1968. Upon his retirement in 1971, Dr. Nelson was named Professor Emeritus.

During his career, Professor Nelson was a visiting professor at several universities, including Chicago, Columbia, Harvard, and Washington, and he was a Guggenheim Fellow (1939-40). He was a member of professional and honorary organizations, including the AAUP; the Association for Symbolic Logic (serving as consulting editor of the Journal of Symbolic Logic from its inception in 1936 until 1950); the Metaphysical Society of America; and the American Philosophical Association. For the latter, he served as National Chairman of the Board of Officers and as President of the Pacific Division (1946-47), and as President of the Western Division (1966-67). He also served as Lieutenant, USNR (1943-44), retiring as Lt. Commander.

Bringing to Ohio State an international reputation as a logician and metaphysician, Dr. Nelson initiated the period of the Department's recognition as a major graduate center. During his tenure as Chair, the number of graduate students increased to about sixty, and the faculty grew from nine to eighteen. A number of philosophers who either were or became well-known in the profession were brought to Ohio State during this period. In every respect, Professor Nelson was a vibrant and upright leader who, as one of his colleagues attested, possessed "purity of intellect... coupled with an incredible generosity of emotion."

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Walter Cade Reckless

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on September 20, 1988, of Walter Cade Reckless, Professor Emeritus in the Department of Sociology.

Walter Reckless was born on January 19, 1899, in Philadelphia, Pennsylvania. He received a Ph.B. in the Social Sciences from the University of Chicago in 1921, where he also completed the Ph.D. in Sociology in 1925.

## RESOLUTIONS IN MEMORIAM (contd)

### Walter Cade Reckless (contd)

After receiving the doctorate, Professor Reckless joined the faculty of Vanderbilt University (1924-1940). He came to The Ohio State University in 1940 where he joined the Emeriti ranks after nearly thirty years (1969). He was a Visiting Professor at numerous major institutions in the U.S. and abroad such as the University of Michigan, Florida State, University of Ottawa, University of Munster in Germany, and the Tata Institute of Applied Social Science in India.

A pioneer in American Criminology and corrections, Dr. Reckless amassed a gigantic record of scholarship, instruction, and service. His numerous books and other publications were ground breaking and continue to be valuable sources of learning. The graduate and undergraduate programs he developed and nurtured made Ohio State a premier place that attracted students from the many corners of the country and the globe. His students are well-placed in academia, in Federal criminal justice agencies, and at the state and local levels. Following his footsteps, several of his students occupied positions of leadership in important scientific and professional organizations. Professor Reckless contributed heavily to the professionalization of probation and parole and the juvenile court system. He attended endless meetings and testified before the Legislature on these and other matters affecting correctional policies, programs, and budgets. He served as consultant to many agencies both in the U.S. and other countries and to the United Nations' Social Defense Section (Crime Prevention).

Professor Reckless' voluminous contributions and tireless efforts in instruction and service have earned him many awards and recognitions. Important among these is President of the American Society of Criminology for three terms, Chairperson of the Criminology Section of the American Sociological Association, and an early recipient of The Ohio State University Distinguished Service Award in 1981.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### John W. Vaughn

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on November 2, 1988, of John W. Vaughn, Associate Professor in the Department of Classics.

Professor Vaughn was born January 11, 1947. He received his B.A. from St. Peter's College in 1969, and his Ph.D. from Johns Hopkins University in 1973. He joined the faculty at The Ohio State University in the Department of Classics in 1974.

Winner of the Rome Prize Fellowship in 1973-1974, Professor Vaughn published studies in Hellenistic poetry, Cicero, and Roman law. In 1981 he received The Ohio State University Alumni Award for Distinguished Teaching, and at the time of his death he was serving as Director of Graduate studies in the Department of Classics.

Professor Vaughn, who had received support from the American Council of Learned Societies for his work on Theocritus, was a founding member of the Roman Law Society of America.

On behalf of the University, the Board of Trustees of expresses to the family its deep sympathy and sense of understanding in its loss. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### RESOLUTIONS IN MEMORIAM (contd)

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### STUDENT AFFAIRS COMMITTEE REPORT

Amb. Wolf:

Mr. Chairman, the Student Affairs Committee met this morning and heard a report from Mr. William Hall, who is the Director of Dormitories and Dining Facilities. He focused mainly on the financial aspects and the statistics and it was a very interesting report. It is nice to know that we are operating that department in the black. The budget is about \$36.5 million. We have about 11,000 students that we are housing and we are serving about 3.5 million meals a year. It seems, and everyone felt, that the Department is very well handled and we were all satisfied with the overview presented to us by Mr. Hall. That is a brief summary of what took place. Are there any questions?

I would like to call on Roger Musgrave for the report on CGS.

Mr. Roger Musgrave:

Good afternoon. We are in the middle of a lot of plans which will be worthy of reporting by your next meeting. So I will put off the activities report and ask you to bare with me for about five minutes on a discussion of some graduate associate issues that have been raised at the most recent Council of Graduate Students meeting. Some are positive, some are less so, and one has relatively broad implications.

Within that framework I will start off as positive as possible. We would like to express appreciation on behalf of all graduate students holding Graduate Associateships to those who worked to eliminate the necessity for us to file city income tax returns to get the tax back we're owed from last year while fee authorizations were considered taxable income by the federal government. We want to publicly offer special thanks to Helen DeSantis in Personnel Services; Controller Janet Achterman; those with whom they worked in University Systems; all the staff members in those offices who actually cut the checks and did the recalculations; Dean Koenigsknecht and his staff; and the nameless and often faceless people in the city administration that made it possible for this to happen this year.

Mr. Teaford:

I don't know if the Board -- all of the Board, especially those from outside Columbus, realize what happened. As I understand it, the City sent one check to the University for those refunds and then the money was passed out and nobody had to file a city income tax return to get their refund.

Mr. Musgrave:

Correct.

President Jennings:

The City has done that and it was a very nice gesture on the part of the City in order to do that. And we were able to do that because of course the withholding tax and the total



## STUDENT AFFAIRS COMMITTEE REPORT (contd)

President Jennings: (contd)

city income tax are the same, so that whatever the students' other income might be, the taxes are not affected by that.

Mr. Musgrave:

We just want to make sure folks realize the graduate associates, in general, appreciate the professional staff here for going above and beyond the call of duty in doing the extra work to get that to us.

Graduate Associates found this past Tuesday an even more comfortable and happier kind of day, because they also found stipend increases in their paychecks. While any increase is most welcome to all Grad Associates the Council does wish several points to be made in the public setting. The minimum stipend level increase this year reflects an increase of 3.76%, which is good. And while the figure will vary depending on where you look, last year's national inflation rate is quoted at around 4.5%, and it may be higher than that in an area with a hot economy like Columbus. So the minimum stipend increase looks a little less good. And when you consider how little of a stipend is discretionary income for graduate students subsisting on that income alone and the disproportionate effect felt by such people when faced with increases in the costs of things such as housing, clothing, food, not to mention telephones, textbooks, journal subscriptions and even student health insurance, things don't really look all that good for minimum stipend increases.

One of our concerns is that there seems to be a common conception, even among many of the faculty we speak with that there are ample guaranteed student loan funds available to supplement the income of graduate students that can't quite make it on the stipend. After all, a lot of them say, "look at the millions in the federal budget for those programs." And that is just flat not the case. Our financial aids folks have to live within federal guidelines in determining local eligibility for guaranteed student loans. A lot of our graduate students find themselves eligible for a few hundred dollars a year which might pay for their books and lab fees, but which won't go far towards the kid's orthopedic shoes or their braces or a lot of other things that these people who are students happen to face.

When broaching this subject with department chairs, graduate studies committee chairs and a lot of other administrators, grad associate representatives are often told that Ohio State has stipend levels that are very comparable to other major research universities in the country. This may be so, but there are two points that the Council wishes to make with regard to that response. First, on very few other levels do we encounter rhetoric which says this University is average, we are going to site that and that is right where we want to stay. We hope that those who create the budget policy and the details therein will realize that stipend salaries have at least as much and perhaps even more impact on attracting quality graduate students as they do on attracting quality faculty and quality nursing staff, etc., right on down the line. And we certainly recognize the challenges posed by the budget, but we also ask that that side of this issue be considered.

Our final problem with the logic behind statements that are essentially premised on the argument that everyone else does it, is that such logic is identical to that which was offered for so many years to minorities and females when they would ask for more reasonable compensation for the services they performed. That alone invalidates the logic for some, but we would also like to ask that all involved recognize the danger of reserving graduate education for those from mid to upper level socio-economic groups, those with outside resources to fall back on as they devote 2-6 years of their lives to

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Musgrave: (contd)

graduate research and study in which there is really only time to work those 20 hours a week as a G.A. And you really can't go out and wait tables on the side and still do a graduate education.

To the extent that this occurs, we are exacerbating problems faced by search committees nationwide as they seek to perform affirmative action work to try to break down some of the white male homogeneity that existed for so long in academia. With no intention of taking a condemnatory stance at all, we ask that our institution consider whether its actions aimed at helping to improve the pool of minority and female faculty members, are as affirmative as they should be and if they take enough factors in to account. Again, we appreciate the effort made this year to increase stipend levels, but we ask that consideration always be given to increases beyond what seems minimally acceptable.

And to close I have been asked to read the text of a very short resolution adopted by the Council at its most recent meeting:

"We are very glad to hear that the discussion of the whole pedestrian campus concept and other space issues is to be reopened and we are heartened by the existence and work of Vice President Marsh's mid and long-range planning committee.

"At the January 8 meeting, our Council adopted the following reaffirmation of the resolution of May 31, 1987. The Council of Graduate Students urges that if the pedestrian campus concept is approved by the administration, that the inner campus areas be accessible to cars at night. Among our concerns are the following: graduate students and faculty often must teach and attend classes in this area at night; many graduate students find it necessary to do other work which can only be performed within the buildings in this area during the evening and late night hours; access requirements will increase even more as graduate students and faculty seek to use the new library plan for 18th Avenue; and both access and safety issues are very important to those with physical disabilities who rely on parking in this area. It is important to maintain the current level of safety for those working on campus by continuing to provide the current level of access to parking in close proximity to all buildings."

We understand that there have been a number of new public hearings scheduled on the whole issue and we will do everything we can to enhance turnout at those hearings.

And finally we are looking forward -- we were also real happy with the slate of potential new Student Board Members sent to Governor Celeste. We are looking forward to working with these folks who are going to work with you. And we very much appreciate what we perceive as your acceptance and enthusiasm about having student members on the Board. Thank you.

Amb. Wolf:

Thank you. Ms. Athena Yiamouyiannis, President of the Undergraduate Student Government --

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Yiamouyiannis:

Mr. Chairman, President Jennings, Members of the Board of Trustees, good afternoon. The Undergraduate Student Government has been very active this quarter finishing up projects, starting new projects, and dealing with very important student issues.

To start with I would like to discuss the tuition increase the students will be faced with next year. A 23% - 40% tuition increase is before us and the students at OSU are very concerned. It is my belief that Ohioans should have the opportunity to attend college. Affordable tuition is the principle behind public institutions and that opportunity for education. The move away from the focus of higher education will only hurt current students, potential students, and the entire state in general. USG is actively involved in pursuing this issue. The Undergraduate Student Government Vice President, Scott Mounts, is heading a letter writing campaign. We have sent out letters to all student organization leaders with a fact sheet and a sample letter encouraging everyone in their group and their affiliates to write to their legislatures and to voice their concerns on the biennium budget and the proposed tuition increase. Also, Scott Mounts and legislative affairs cabinet member, Carrie Zeigel, are members of the executive board of the Ohio Students Association. This association is an organization comprised of the 13 public institutions' leaders from the student governments. They are working statewide to continue this effort flooding legislators with mail about students' concerns regarding affordable tuition. USG assembly is also actively involved in this, reaching out to their constituency for support. Assembly member Tom Heading wrote a petition addressed to Governor Celeste describing the impact of the tuition increase on students if action isn't taken. A 23%-40% increase in tuition is quite substantial and we are looking to try to stop it if we can.

Going on to other USG matters -- at the last Senate meeting, Amy Riemen-schneider from the Committee of Women and Minorities presented the committee report to the Senate. As the report states, of the 30 professors that were appointed last year, only one was a female and only one was a minority. As I said at the last meeting, over half the OSU students are female and again this year we only have 7% at the full professor level being female. USG assembly discussed the issue and passed a resolution in support of the recommendations made by the Committee on Women and Minorities. We recommend that OSU take immediate action to improve the gender imbalance at the upper faculty levels.

I would like to now go into some other activities that USG is involved in. I think everyone received a report on financial aid that USG cabinet member Jennifer Murray compiled. The USG Financial Aid Forum was held on Monday, January 30. Students were given information on how to fill out the financial aid form correctly and they had an opportunity to have questions answered on financial aid concerns.

Student concern has been brought up about the world wide destruction of the rain forests. USG sponsored Dr. Mark Bush, an OSU professor in Zoology and Ecology to speak to the public on this topic of "Rain Forest Destruction -- Is it our Concern?" We had a very good turnout. This was held last night at the Ohio Union conference theatre. About 150 students and faculty members showed up for the presentation.

Another project that USG is working on is the USG AIDS Awareness project in conjunction with the Gay and Lesbian Alliance. We are distributing 10,000 AIDS pamphlets to undergraduate students. The pamphlets were compiled by the Department of Health and Human Services and are a type of educational support from the student government.

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Ms. Yiamouyiannis: (contd)

In honor of United Black World Week, which is February 11 - 18, USG has planned an event for the students -- the USG Minority Affairs Reception to celebrate students' sensitivity to diversity. USG Minority Affairs cabinet member Tyron Alexander conferred with many University faculty members, students and administrators during Fall Quarter. He will be speaking on the report that he compiled and will be making statements about his observations and suggesting ways for student affirmative action. He is going to be working to establish equality and better interaction between different ethnic groups. In addition, we are trying to have two other student leaders come and speak -- the co-chairs of the Student Involvement On Racism Task Force. All OSU students are invited to attend the celebration and it is going to take place on the third floor of the Ohio Union, Stecker Lounge from 5:00 - 6:30 p.m. on February 16. Members of the Board, you are also invited to attend.

To conclude, I would like to say that I am very pleased that Governor Celeste has made a selection for the two student members to the Board. Laurel Davis and Sophia Paige will be an excellent addition to the current Board. That ends my report.

Mr. Immke:

Athena, I don't believe we received that financial report you spoke about. Would you please send a copy to Mr. Scott for distribution.

Athena Yiamouyiannis:

Yes, of course.

Mr. Wolf:

That concludes our report.

(See Appendix XVIII for complete text of The Ohio State University, Division of Student Affairs, Office of Residence and Dining Halls, page 751.)

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**AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mr. Teaford:

I know I will disappoint the Board by making a brief report, but I shall do that anyway. We did have a report on what OARDC and Cooperative Extension are doing with regard to their budget efforts, which as you know are a separate line-item from the rest of the University. The most encouraging thing heard is that they have gotten all of the agribusiness people together in this State to lobby as one, beginning at the grass roots. I think that there could not be a better way to ensure a good appropriation in that regard.

We also heard a report on the Development Fund campaign in the College of Agriculture. And I suspect if the rest of the University were doing as well, we would probably be at around \$700 million right now. But I thought the most encouraging thing about the agriculture fund raising was how much they were able to fulfill their wish list -- how much of the money is going for the projects which they had hoped it would go for in the beginning. It is certainly well above the University average. That concludes my report, Mr. Chairman.

**AGRICULTURAL AFFAIRS COMMITTEE (contd)**

President Jennings:

I think it is important for the Board to recognize that while the tuition issues associated with the Governor's budget are certainly extraordinarily important, it should not be forgotten that in the tax proposals there are no recommendations for agriculture, medicine, or the health sciences in the income tax proposal. We should all recognize that when we are talking about these appropriations, it is not just tuition for Ohio State and higher education that is being shorted, agriculture and medicine are also being shorted in these recommendations.

(See Appendix XX for complete text of The Ohio State University, College of Agriculture Development Update, January 1989, page 767.)

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President Jennings:

You had before you earlier this morning the contract for the \$20 million project on PCBs. You heard an objection from the Westinghouse people to the General Electric bid. We have received an opinion from counsel -- counsel is incidentally the Vorys firm in this -- that the General Electric bid is in conformity with State statute. Therefore, I recommend that we award that contract to General Electric this afternoon. We would seek your approval for that.

**AWARD OF CONTRACTS  
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE**

Resolution No. 89-77

Synopsis: Adoption of a plan and the award of a contract for the disposal of all Polychlorinated Biphenyl (PCB) contaminated fluids in all University Electrical equipment and the upgrading of certain electrical distribution equipment on the Columbus Campus is recommended.

WHEREAS the U.S. Environmental Protection Agency has promulgated regulations requiring that PCB compounds in certain electrical equipment be properly disposed of by October 1, 1990; and

WHEREAS the University wishes to eliminate the use of PCB contaminated electrical equipment on the Columbus and regional campuses to remove any health and safety risk to faculty, staff, students, and the general public caused by the present use of PCB materials; and

WHEREAS the University deems it prudent to upgrade and modernize certain sections of the Columbus Campus electrical distribution system to correct distribution deficiencies and improve the general reliability of the system; and

WHEREAS this PCB Elimination and Electrical System Upgrade Project will take two years to complete and the estimated capital cost of the project will be approximately \$20 million, to be financed through long-term debt, with the debt service being financed through higher campus electrical energy rates; and

WHEREAS to implement this PCB Elimination and Electrical System Upgrade Project, the University prepared specifications and solicited competitive bids; and

WHEREAS bids were received from Westinghouse Electric and General Electric, and General Electric submitted the lowest responsive and responsible bid:

**AWARD OF CONTRACTS  
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE (contd)**

**NOW THEREFORE**

BE IT RESOLVED, That the Board of Trustees of The Ohio State University hereby accepts the report on "The Polychlorinated Biphenyl (PCB) Elimination and Electrical System Upgrade Project" and adopts the recommendations contained in this report; and

BE IT FURTHER RESOLVED, That the Board of Trustees of The Ohio State University hereby awards the contract for the PCB Elimination and Electric System Upgrade Project to GE-Industry Services Engineering and directs the President and/or Vice President for Business and Administration to take all necessary and appropriate actions to implement the award.

Upon motion of Mr. Teaford, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXI for complete text of The Ohio State University PCB Elimination and Electrical System Upgrade, page 771.)

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**FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

Fiscal Affairs met as a full Board committee meeting this morning. Jim Jones, Director, presented a report on the fiscal situation of the Department of Athletics, and summarized that Department's priorities in facility needs. The emphasis is on generating resources to upgrade and modernize existing facilities prior to selective development of new facilities. (See Appendix XXII for complete text of The Ohio State Athletic Department Approved Budget 1988-89, page 779.)

Janet Achterman, University Controller, reviewed the University's Annual Financial Report for the fiscal year ending June 30, 1988. The external auditors, Touche Ross & Company certified that the statements fairly represented the University's financial position. With the recognition of the expense of the early retirements of faculty and staff being totally recognized during the fiscal year and the use of prior balances by various units of the University. The current funds equity declined by \$40 million over the fiscal year. This decline is expected to occur again in the current fiscal year due to additional early retirements in June through December plus the continued emphasis on reallocations due to limited levels of State support. (See Appendix XXIII for complete text of the University Financial Report for the Fiscal Year ending June 30, 1988, page 786.)

The 1988-89 Second Quarter Current Funds Budget Report showed adjustments from the budget this Board approved in June of \$6.8 million. These adjustments were primarily due to changes in the amounts of state funding and tuitions based upon actual Autumn Quarter enrollments as well as increased performance in sponsored research. (See Appendix XXIV for complete text of The Ohio State University, 1988-89 Current Funds Budget - 2nd Quarter Report, page 791.)

The Governor's budget request for the next biennium was summarized, which with annual increases of 3.3% and 3.5% over the next two years without new tax revenues, leaves this University in a difficult financial situation. If this budget is the final result,

## **FISCAL AFFAIRS COMMITTEE REPORT (contd)**

Mr. Kessler: (contd)

without recognition of Ohio State's prior actions to hold down tuitions, it will force extraordinary tuition increases as well as internal expenditure limitations over the next two years.

The Waiver of Competitive Bidding over the past three months were reviewed and approved as summarized by Mr. Jackson. These 30 waivers totalling \$841,700, were primarily emergency and/or unique purchases which did not warrant competitive bidding. (See Appendix XXV for complete text of Waivers of Competitive Bidding Requirements - October - December 1988, page 797.)

In addition, to this report the Committee is recommending the following resolutions:

### **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 89-78

Synopsis: The Fiscal Affairs Committee recommends the approval of the following reports on contracts, grants, and gifts and the summaries for November and December 1988.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the months of November and December 1988 be approved.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR NOVEMBER 1988**

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	84	\$6,931,304.50
Engineering Experiment Station	32	\$ 160,993.00
Total	116	\$7,092,297.50
The Ohio State University Development Fund		
Establishment of Named Funds		
The Janice Carson Beatley Herbarium Fund (Field Research in plant systematics and ecology)		\$ 50,000.00
The John A. Prior Professorship Fund (Establishment of a full professorship)		\$ 34,997.83
The Suzanne Kolarik Underwood Scholarship Fund (Scholarship - architectural design)		\$ 30,600.00
The GAR Foundation Scholarship Fund (Financial assistance for students enrolled in the College of Law)		\$ 25,000.00
The R.M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund (Scholarships - School of Architecture)		\$ 21,000.00
The All American Youth Horse Show Endowment Fund (Scholarships - members of the 4-H horse program)		\$ 15,000.00
The Martha Miller Lotman Memorial Scholarship Fund (Scholarships - Marion Campus)		\$ 15,000.00
The Sigmund & Rita Munster and Family Athletic Endowment Fund (Grant-in-Aid costs of a student-athlete who is a member of the football squad)		\$ 15,000.00
Change in Description of Named Fund		
The Optometry Class of 1953 Endowed Scholarship Fund		



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR DECEMBER 1988**

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	93	\$11,102,535.08
Engineering Experiment Station	60	\$ 36,918.00
Total	153	\$11,139,453.08

**The Ohio State University Development Fund**

**Establishment of Named Funds**

The E. F. Wildermuth Foundation Professorship Fund in Optometry (Scholarships)	\$ 50,000.00
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The Edward M. Alkire Scholarship Fund (Scholarships - College of Social and Behavioral Sciences)	\$ 15,000.00
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The Derek H. Busch Memorial Award Fund (Scholarship - School of Music)	\$ 15,000.00
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The W. Chaney and Jane S. Vance Family 4-H Fund (Scholarships - College of Agriculture or College of Home Economics)	\$ 15,000.00
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**Change of Name and Description of Named Fund**

From: The Department of Philosophy Faculty Support Fund  
To: The Steve R. and Sarah E. O'Donnell Professorship in Philosophy

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

**Federal Research Contracts/Grants**

\$1,275,000.00 - National Aeronautics and Space Administration, Washington, DC, A Center for Commercial Development of Space: Real-Time Satellite Mapping, Center for Mapping (J. D. Bossler), Department of Electrical Engineering (K. L. Boyer), Department of Geodetic Science (G. C. Dedes, C. C. Goad, and A. F. Schenk), Department of Civil Engineering (D. Eckert, J. G. Lyon, M. R. McCord, and T. H. Wu), Department of City and Regional Planning (S. I. Gordon), Department of Agronomy (T. J. Logan), Department of Geography (H. J. Moellering), Department of Agricultural Engineering (J. C. Papritan and A. D. Ward), Department of Landscape Architecture (J. W. Simpson), Department of Geology and Mineralogy (R. R. Von Frese), 1 September 1988 through 31 August 1989. (Project 765707 - Continuation)

\$360,000.00 - Department of the Navy, Office of Naval Research, Arlington, VA, Joint Services Electronics Program, Department of Electrical Engineering, ElectroScience Laboratory (L. Peters, Jr., P. H. Pathak, E. H. Newman, R. T. Compton, and R. C. Chou), 1 October 1988 through 30 September 1991. (Project 767124 - Continuation)

\$299,947.00 - National Science Foundation, Washington, DC, Mathematics through Technology: Establish Concepts and Skills of Graphing and Functions in Grades 9 through 12, Department of Educational Theory and Practice (A. Osborne and G. Foley) and Department of Mathematics (F. Demana and B. Waits), 1 November 1988 through 31 October 1989. (Project 766335 - Continuation)

\$199,967.00 - Department of Health and Human Services, Public Health Service, National Center for Health Services, Research and Health Care Technology Assessment, Rockville, MD, Heart Health for Southeast Asians in Franklin County, Ohio, School of Health, Physical Education and Recreation (M. S. C. Chen), Department of Family Medicine (R. M. Guthrie) and Department of Sociology (W. Li), 1 November 1988 through 31 October 1990. (Project 767139 - New)

\$196,595.00 - Department of Education, Office of Postsecondary Education, Washington, DC, Title III -- Development and Improvement of Academic Programs, Agricultural Technical Institute - Administrative Support (D. D. Garrison), 1 October 1988 through 30 September 1989. (Project 766437 - Continuation)

\$190,000.00 - Department of the Army, Army Corps of Engineers, Vicksburg, MS, ARMS -- An Acoustics-Based Resuspension Measurement System for In-Place Estimates of Entrainment and Erosion from Dredged Material Disposal Sites, Department of Civil Engineering (K. W. Bedford), 1 October 1988 through 30 September 1989. (Project 766710 - Continuation)

\$143,189.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Redox and Electron-Transfer Properties of Flavodoxins, Department of Biochemistry (R. P. Swenson), 1 December 1988 through 30 November 1989. (Project 767166 - New)

\$140,883.50 - Department of Health and Human Services, Public Health Service, Center for Disease Control, Atlanta, GA, Study to Evaluate the Impact Strategies to Improve Prevention Behaviors and Reduce the Risk for Lower Extremity Amputation in Persons with Diabetes Mellitus, Department of Internal Medicine (S. Cataland), 30 September 1988 through 29 September 1990. (Project 767120 - New)

\$134,104.00 - Department of the Interior, Geological Survey, Reston, VA, Digital Line Graph Hypsography Enhancement, Center for Mapping (J. D. Bossler), 1 October 1988 through 30 September 1989. (Project 767156 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$116,000.00 - Department of the Army, Army Material Command, Fort Monmouth, NJ, Computer-Communication Protocols for ISDNs (Integrated Services Digital Networks), Department of Computer and Information Science (M. T. Liu), 1 March 1988 through 30 November 1989. (Project 766613 - Continuation)

\$100,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, Effects of Ice Formation on 2-D Aerodynamic Shapes, Department of Aeronautical and Astronautical Engineering (M. B. Bragg and G. M. Gregorek), 1 November 1988 through 31 October 1989. (Project 762009 - Continuation)

\$97,259.00 - Department of the Navy, Office of Naval Research, Arlington, VA, Pack Cementation Coating of Ni-Base and Co-Base Alloys to Combat Low Temperature Hot Corrosion, Department of Materials Science and Engineering (R. A. Rapp), 1 November 1987 through 31 October 1989. (Project 765839 - Continuation)

\$92,000.00 - National Science Foundation, Washington, DC, Physical Studies of Xanthine Oxidase and Arsenite Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 November 1988 through 31 October 1989. (Project 767140 - New)

\$88,430.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, DC, Laser Diagnostics of Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 December 1988 through 30 November 1989. (Project 767158 - New)

\$86,760.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Preclinical Pharmacology Investigations of Antitumor Agents, College of Pharmacy (L. Malspeis), 1 November 1988 through 13 April 1989. (Project 765385 - Continuation)

\$86,540.00 - Department of the Navy, Office of Naval Research, Arlington, VA, High-Level Connectionist Models, Department of Computer and Information Science (J. B. Pollack), 1 January 1989 through 30 September 1989. (Project 767172 - New)

\$85,505.00 - Department of Agriculture, Animal and Plant Health Inspection Service, Fort Collins, CO, Evaluation of Economics and Epidemiologic Data from the National Animal Health Monitoring System (NAHMS): Identifying Bacterial Agents Associated with Bovine Mastitis and Special Studies with the NAHMS Core for Mastitis in Dairy Cattle, Department of Veterinary Preventive Medicine (G. Y. Miller), 1 October 1988 through 30 September 1989. (Project 766673 - Continuation)

\$83,181.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, A Study of DNA Intercalating Aromatic Amino Azides, Department of Chemistry (M. S. Platz), 1 December 1988 through 30 November 1989. (Project 765804 - Continuation)

\$75,000.00 - National Science Foundation, Washington, DC, Superconductive Glass State and Other Properties of Granular Materials, Department of Physics (D. G. Stroud), 1 April 1989 through 31 March 1990. (Project 766614 - Continuation)

\$75,000.00 - Department of Energy, Argonne, IL, Strongly Interacting Fermion Systems, Department of Physics (J. W. Wilkins), 15 November 1988 through 14 May 1989. (Project 766783 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$72,936.00 - National Science Foundation, Washington, DC, Manipulation of Objects by Means of Phased Movements of Multiple Fingers, Department of Mechanical Engineering (K. J. Waldron), 1 December 1988 through 31 March 1990. (Project 766443 - Continuation)

\$69,655.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, Modeling of Gear Dynamics, Housing Noise and Transmissibility of a NASA Spur Gear Test Facility, Department of Mechanical Engineering (D. R. Houser and R. Singh), 9 January 1989 through 8 January 1990. (Project 765863 - Continuation)

\$64,175.00 - Department of the Air Force, Air Force Systems Command, Griffis Air Force Base, NY, Explanation in Problem-Solving and Planning Systems, Department of Computer and Information Science (B. Chandrasekaran), 1 October 1988 through 15 1989. (Project 764562 - Continuation)

\$56,233.00 - National Science Foundation, Washington, DC, Cretaceous and Tertiary Strata of the James Ross Basin and the Evolution of the Antarctic Peninsula, Byrd Polar Research Center and Department of Geology and Mineralogy (D. H. Elliot), 15 October 1988 through 14 October 1989. (Project 767154 - New)

\$50,000.00 - Department of the Army, Army Materiel Command, Dover, NJ, Synthesis of Polynitro Cage Molecules, Department of Chemistry (L. A. Paquette), 1 May 1988 through 29 April 1990. (Project 765379 - Continuation)

\$48,890.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, DC, Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering (T. Herbert), 1 October 1988 through 31 March 1989. (Project 766854 - Continuation)

\$48,144.00 - National Science Foundation, Washington, DC, Presidential Young Investigator Award, Department of Civil Engineering (M. R. McCord), 1 January 1989 through 31 December 1989. (Project 766242 - Continuation)

\$45,139.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Comparative Aspects of Peripheral Lung Mechanics, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 December 1988 through 30 November 1989. (Project 765821 - Continuation)

\$41,600.00 - National Science Foundation, Washington, DC, Cenozoic Sea-Level and Glacial Variation in the Western Ross Sea, Antarctica, Through Diatom Paleoecology and Stratigraphy, Byrd Polar Research Center (D. H. Elliot and D. M. Harwood), 1 February 1989 through 31 January 1990. (Project 767155 - New)

\$37,000.00 - National Science Foundation, Washington, DC, Molecular Beam Reactions Involving Metal Hydroxides and Hydrides, Department of Chemistry (J. M. Parson), 1 June 1989 through 31 May 1990. (Project 765988 - Continuation)

\$36,229.00 - National Science Foundation, Washington, DC, Secular Climate and Atmospheric Circulation Fluctuations over the Atlantic Area, Department of Geography (J. C. Rogers), 1 November 1988 through 31 October 1989. (Project 767077 - New)

February 3, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$27,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, *Campylobacter pylori* in the Gnotobiotic Piglet, Department of Veterinary Pathobiology (S. G. Krakowka and K. A. Eaton), 1 January 1989 through 31 December 1989. (Project 767150 - New)

\$25,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, OH, Adaptive Arrays for Satellite Communication, Department of Electrical Engineering, ElectroScience Laboratory (I. J. Gupta and E. K. Walton), 20 October 1988 through 28 February 1989. (Project 764040 - Continuation)

\$20,838.00 - National Science Foundation, Washington, DC, Computer-Aided Design and Measurement Microwave Workstation for Undergraduate Instruction, Department of Electrical Engineering (P. Roblin and G. J. Valco), 15 November 1988 through 31 October 1990. (Project 767171 - New)

\$20,004.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, MD, Fc Receptor Signal Transduction in the Human Platelet, Department of Internal Medicine (C. L. Anderson and G. P. Anderson), 1 November 1988 through 31 October 1989. (Project 767145 - New)

\$18,000.00 - National Aeronautics and Space Administration, Washington, DC, Rapid Prototyping with Centaurs, Department of Industrial and Systems Engineering (P. J. Smith), 30 September 1988 through 30 September 1989. (Project 765706 - Continuation)

\$15,444.00 - National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD, Ultraviolet Spectroscopy of Planetary Nebulae: Cosmological Implications, Department of Astronomy (G. J. Ferland, B. M. Peterson and E. R. Capriotti), 15 December 1988 through 14 December 1989. (Project 766473 - Continuation)

\$7,382.00 - National Science Foundation, Washington, DC, Structural Influence of Zeolites on Metals and Metal Complexes Within Its Cavities -- A Raman Spectroscopy Study, Department of Chemistry (P. K. Dutta), 1 July 1988 through 30 June 1989. (Project 764936 - Continuation)

\$6,260.00 - National Science Foundation, Washington, DC, Exploring Mechanisms of a Species Replacement in a Benthic Stream Community, Department of Zoology (R. A. Stein), 15 October 1988 through 30 September 1989. (Project 767135 - New)

\$6,221.00 - National Science Foundation, Washington, DC, Systematics of the Genus *Mulinum* Pers. (Asteraceae), Department of Botany (T. F. Stuessy), 1 December 1988 through 30 November 1990. (Project 767167 - New)

TOTAL - FEDERAL AWARDS

\$4,641,510.50

#### State of Ohio Research Contracts/Grants

\$47,855.00 - State of Ohio, Department of Development, Columbus, OH, Commercialization of High Temperature Ceramic Superconductors, Department of Physics (D. L. Cox), 24 October 1988 through 24 April 1989. (Project 767132 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$17,875.00 - State of Ohio, Department of Transportation, Columbus, OH, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1988 through 30 June 1989. (Project 766352 - Continuation)

\$8,370.00 - State of Ohio, Ohio Arts Council, Columbus, OH, We are All the People with AIDS, Department of Theatre (R. T. Wharton III), 1 July 1988 through 30 March 1989. (Project 767121 - New)

**TOTAL - STATE OF OHIO AWARDS**

**\$ 74,100.00**

**Industrial Research Contracts/Grants**

\$525,243.00 - Cray Research, Inc., Mendota Heights, MN, Research and Development Agreement with Cray Research, Inc., Ohio Supercomputer Center (C. F. Bender), 1 November 1988 through 31 October 1989. (Project 766446 - Continuation)

\$197,939.00 - General Electric Company, Cincinnati, OH, Electromagnetic Characterization of Design Features for Propulsion Systems, Department of Electrical Engineering, ElectroScience Laboratory (P. H. Pathak and L. Peters, Jr.), 1 November 1988 through 31 January 1990. (Project 767136 - New)

\$178,200.00 - Pfizer, Inc., Groton, CT, Phase I Double-Blind, Placebo-Controlled, Safety Tolerant and Pharmacokinetic Study of Multiple Doses of Intravenous Fluconazole, Department of Pharmacology (N. Gerber), 9 January 1988 through 8 November 1988. (Project 765696 - Continuation)

\$100,000.00 - Pacific Applied Research, Rancho Palos Verdes, CA, Short Wavelength Chemical Laser Fluid Dynamics, Department of Mechanical Engineering (J. W. Rich and Department of Aeronautical and Astronautical Engineering (J. D. Lee), 15 October 1988 through 14 October 1989. (Project 766600 - Continuation)

\$88,039.00 - Pfizer, Inc., Groton, CT, Phase I Study to Assess the Potential of Amlodipine to Alter the Pharmacodynamics of Warfarin, Department of Pharmacology (N. Gerber), 11 September 1988 through 10 March 1989. (Project 765696 - Continuation)

\$83,000.00 - Mission Research Corporation, Santa Barbara, CA, Advanced Radar Cross Section Measurement Range, Department of Electrical Engineering, ElectroScience Laboratory (W. D. Burnside and J. D. Young), 1 September 1988 through 31 December 1988. (Project 766973 - Continuation)

\$62,650.00 - General Electric Company, Cincinnati, OH, Plasma Arc Tunnel Test Program, Department of Aeronautical and Astronautical Engineering (J. D. Lee and G. M. Gregorek), 13 October 1988 through 12 October 1989. (Project 767130 - New)

\$30,000.00 - Borg-Warner Chemicals, Inc., Parkersburg, WV, Research and Development of an Advanced Class-8 Truck Cab, Department of Industrial Design (R. F. Butter and H. Goeller), 19 September 1988 through 18 September 1989. (Project 767123 - New)

\$28,600.00 - Syntex (USA), Palo Alto, CA, Ketorolac Tromethamine Solution 0.5% in the Maintenance of Intraoperative Pupillary Mydriasis During Cataract Extraction: Double-Masked Parallel

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

Comparison with Vehicle, Department of Ophthalmology (R. H. Keates), 1 October 1988 through 1 June 1989. (Project 767143 - New)

\$15,000.00 - Bio-Metric Systems, Inc., Eden Prairie, MN, A Comparison of Intraocular Lens Toxicity Within the Rabbit Eye, Department of Ophthalmology (R. H. Keates), 12 September 1988 through 31 March 1989. (Project 767142 - New)

\$12,500.00 and Personnel Services - Oceanroutes, Inc., Sunnyvale, CA, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 November 1988 through 31 October 1989. (Project 766219 - Continuation)

\$7,722.00 - Bausch and Lomb, Rochester, NY, An Investigation to Determine if Specular Photomicroscopic Analysis of the Cornea Epithelium is a Viable Test of Contact Lens Performance, College of Optometry (J. T. Barr), 1 September 1988 through 31 December 1988. (Project 767141 - New)

\$5,434.00 - The Andersons, Maumee, OH, The Economic Viability of Formulating Agricultural Chemicals Using Liposome Technology, Department of Horticulture - OARDC and Department of Horticulture (S. F. Gorski) and Department of Agronomy and Cooperative Extension State Operations (J. R. Street), 22 April 1988 through 31 October 1988. (Project 766778 - New)

\$5,315.00 - CIBA-GEIGY Corporation, Greensboro, NC, Product Palatability Study, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 October 1988 through 31 March 1989. (Project 767153 - New)

\$3,000.00 - Agway, Inc., Syracuse, NY, Effects of Protein, Carbohydrate and Fat Source on Bacterial Colonization and Degradation of Fiber In Vitro, Department of Dairy Science - OARDC and Department of Dairy Science (J. L. Firkins), 1 November 1988 through 31 October 1989. (Project 767138 - New)

\$2,145.00 - Omega Biologicals, Inc., Woodland Hills, CA, Various Monoclonal Antibodies Consumers, Department of Microbiology (B. S. Zwilling), 1 October 1988 through 31 August 1989. (Project 766485 - New)

**TOTAL - INDUSTRIAL AWARDS**

**\$1,344,787.00**

**Other Non-Federal Research Contracts/Grants**

\$114,680.00 - University of Chicago, Argonne, IL, Interfacial Phenomena and Dynamics of Bubbles in Gas-Liquid-Solid Fluidization, Department of Chemical Engineering (L. S. Fan and R. S. Brodkey), 4 November 1988 through 3 November 1989. (Project 767131 - New)

\$112,023.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, OH, Agribusiness Training Project in the Dominican Republic, Office of International Programs in Agriculture (D. O. Hansen), 1 October 1988 through 31 January 1989. (Project 767137 - New)

\$100,000.00 - Gas Research Institute, Chicago, IL, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 1 January 1988 through 31 December 1988. (Project 766219 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$80,000.00 - American Cancer Society, Atlanta, GA, Function of the Herpes Simplex Virus Deoxyribonuclease, Department of Microbiology and Immunology (D. S. Parris), 1 January 1989 through 31 December 1989. (Project 765525 - Continuation)

\$70,400.00 - Harold Wetterberg Foundation, Roseland, NJ, A Role of Prolactin and Growth Hormone Phosphorylation and Glycosylation in the Metabolism of the Cow, Department of Veterinary Pathobiology (C. L. Brooks), 1 June 1988 through 31 May 1991. (Project 767163 - New)

\$70,200.00 - Medical College of Ohio, Toledo, OH, Health Promotion, Disease Prevention for Poor, Underserved, and Minority Older Women, College of Medicine - Administration (G. L. Trzebiatowski), 1 October 1988 through 30 September 1989. (Project 767114 - New)

\$42,360.00 - United Nations, Rome, Italy, Identification of Genomic Alterations in Plant Tissue After Long-Term Storage of Seed, Department of Agronomy - OARDC and Department of Agronomy (J. C. Kamalay), 1 December 1988 through 30 November 1989. (Project 766128 - Continuation)

\$38,000.00 - University of Nebraska, Lincoln, NE, A Research/Extension Awareness Program for Low-Input Agriculture in Ohio, Department of Agronomy - OARDC and Department of Agronomy (D. J. Ecker and R. Lal), 1 June 1988 through 30 September 1989. (Project 767127 - New)

\$31,050.00 - People's Republic of China, Beijing, China, Training in American Enterprise, Trade, and Technology Transfer in the 21st Century for Representatives of the People's Republic of China, Department of Mechanical Engineering (R. E. Bailey), 1 June 1988 through 31 December 1988. (Project 766956 - Continuation)

\$29,575.00 - Hildegard Doerenkamp-Gerhard Zbinden Foundation 1, Chur, Switzerland, Cell Culture Model for Spinal Cord Injury, Department of Physiological Chemistry (L. A. Horrocks), 1 November 1988 through 31 October 1989. (Project 767162 - New)

\$26,299.00 - Children's Hospital, Columbus, OH, Intestinal Transplantation in Inbred Rats, Department of Surgery (C. G. Orosz), 1 August 1988 through 31 July 1989. (Project 767161 - New)

\$22,484.00 - University Space Research Association, Houston, TX, USRA Aeronautics Pilot Program, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 15 August 1988 through 15 June 1989. (Project 767119 - Continuation)

\$20,427.00 - North Central Regional Center for Rural Development, Ames, IA, Regional Survey of Operators and Their Farming Partners, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. L. Reif) and Department of Sociology (M. K. Meyer), 1 October 1988 through 31 December 1989. (Project 767159 - New)

\$16,643.00 - Central Ohio Diabetes Association, Columbus, OH, The Effect of Exercise Training on the Metabolic and Microvascular Complications Associated with Non-Insulin Dependent Diabetes Mellitus, School of Health, Physical Education and Recreation (W. M. Sherman), Department of Internal Medicine (K. Osei), Department of Veterinary Physiology and Pharmacology (R. Hamlin), and School of Allied Medical Professions (K. Ward), 1 October 1988 through 30 September 1989. (Project 767152 - New)

\$16,166.00 - American Quarter Horse Association, Amarillo, TX, Effect of Exercise on Articular Cartilage Repair in the Horse, Department of Veterinary Clinical Sciences (L. R. Bramlage), 1 October 1988 through 30 September 1989. (Project 767151 - New)



February 3, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$15,000.00 - American Cancer Society, Ohio Division, Inc., Dublin, OH, Molecular Cloning of a cDNA for Deoxycytidine Kinase, Department of Biochemistry (D. H. Ives), 1 November 1988 through 31 October 1989. (Project 767157 - New)

\$14,500.00 - Ruth Mott Fund, Flint, MI, A Demonstration Farm Comparing Conventional High Input, Integrated Lower Input, and Organic Low Input Systems, Department of Entomology - OARDC (B. R. Stinner), 1 November 1988 through 31 October 1989. (Project 767160 - New)

\$12,420.00 - Japan-United States Friendship Committee, Washington, DC, Acquisition and Cataloging of Japanese Language Works Dealing with Japanese Industry, Labor, Technology, Business, and Policymaking, University Libraries (M. Donovan), 1 October 1988 through 30 September 1989. (Project 767164 - Continuation)

\$10,800.00 - Children's Hospital Research Foundation, Columbus, OH, Insulin Effects on Growth in Children with Cystic Fibrosis, Department of Internal Medicine (T. M. O'Dorisio), 28 February 1988 through 27 February 1989. (Project 767148 - New)

\$9,397.00 - Midwest Research Institute, Golden, CO, Wind Tunnel Testing of an S809 Airfoil Model, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 7 November 1988 through 20 January 1989. (Project 767149 - New)

\$6,873.00 - Texas A & M University, College Station, TX, Siliceous Micropaleontology, Southeast Asian Basins, Leg 124 Ocean Drilling Program, Department of Geology and Mineralogy (P. N. Webb), 1 November 1988 through 31 January 1989. (Project 767134 - New)

\$5,000.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, TX, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1988 through 31 December 1988. (Project 767147 - New)

\$3,500.00 - Farm Foundation, Oak Brook, IL, International Conference on Sustainable Agriculture, Department of Entomology - OARDC and Department of Entomology (C. A. Edwards), 17 February 1988 through 30 September 1989. (Project 767133- New)

\$2,600.00 - Greater Columbus Arts Council, Columbus, OH, Post Productions, Department of Dance (V. J. Blaine), 1 November 1988 through 30 May 1989. (Project 767146 - New)

\$510.00 - Upper Arlington City Schools, Upper Arlington, OH, Upper Arlington-Ohio State Middle School Project, School of Health, Physical Education and Recreation (M. O'Sullivan), 30 August 1988 through 8 June 1989. (Project 767087 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$ 870,907.00**

### **ENGINEERING EXPERIMENT STATION**

#### **Industrial and Other Sponsored Research and Development**

\$54,000.00 - Edison Materials Technology Center, Kettering, OH, "Sheet Metal Formability: Evaluation and Development of Testing," Department of Materials Science and Engineering, 1 October 1988 through 31 March 1990. 88 through 31 March 1990. (312486)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industrial and Other Sponsored Research and Development (contd)**

\$38,742.00 - Ross Laboratories, Columbus, OH, "Feeding Tube Electrode Optimization Study," Engineering Experiment Station (Biomedical Engineering), 1 October 1988 through 30 June 1989. (312485)

\$36,913.00 - AITRC, Columbus, OH, "Partitioning Signature (Surrogate) Files for Parallel Processing Proposal," Department of Computer and Information Science, 1 September 1988 through 30 June 1989. (529784)

\$16,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529202)

\$15,338.00 - from 23 sponsors of 28 development projects in two departments/research areas of the College.

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **\$160,993.00**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

**Establishment of Named Funds**

**The Janice Carson Beatley Herbarium Fund**

The Janice Carson Beatley Herbarium Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Charles E. Beatley, Jr. (B.A. '38, M.A. '47) of Alexandria, Virginia, and Mary Beatley Jordan (B.A. '44) of Sunland, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for field research for graduate students in plant systematics and ecology within the College of Biological Sciences.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**The John A. Prior Professorship Fund**

The John A. Prior Professorship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John A. Prior (B.A. '35, M.D. '38), Columbus, Ohio, former Dean of the College of Medicine, his family and friends.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The John A. Prior Professorship Fund (contd)**

The intent of this endowment fund is to lead to the establishment of a full professorship to be known as The John A. Prior Professorship in the College of Medicine. All interest earned and additional gifts shall be added to the principal until such time as sufficient funding is available to fully establish the Professorship. The Professorship will be used to support teaching and research in pulmonary diseases through the Department of Internal Medicine, Division of Pulmonary Diseases, with the primary emphasis on research activities.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

##### **The Suzanne Kolarik Underwood Scholarship Fund**

The Suzanne Kolarik Underwood Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from William Michael Kolarik (B.S.M.E. '79), Sparks, Nevada; William James and Helen Marie Kolarik, Palm Harbor, Florida; Max Underwood, Tempe, Arizona; and the family and friends of the late Suzanne Kolarik Underwood (B.S.Arch. '77).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an annual scholarship award to a student entering his/her fourth year architectural design studio, who has demonstrated superior ability and talent in his/her third year architectural design studio. Should the endowment principal generate funds more than the tuition needed for one academic year, the excess shall be used to award a scholarship to a student entering the third year architectural design studio who has completed and demonstrated superior ability and talent in his/her second year design studio work. Should the endowment earnings exceed funds necessary to support both scholarships for three full quarters of tuition, earnings over that amount shall be used for the School of Architecture's general scholarship fund. The scholarship award(s) shall be based not on financial need, but rather on demonstrated academic excellence in architectural design. The selection will be made jointly by the chairperson and the appropriate architectural design professors of the Department of Architecture in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund it should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the director of the School of Architecture, the chairperson of the Department of Architecture, or the appropriate program administrative officer in order to carry out the desire of the donors.

February 3, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The GAR Foundation Scholarship Fund**

The GAR Foundation Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The GAR Foundation of Akron, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance to one or more students with demonstrated financial need who are enrolled in the College of Law, with first preference being given to law students who are from Summit County.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with The GAR Foundation and with preference being given to the recommendations from the appropriate administrative official of the University who is then directly responsible for the law education in order to carry out the desire of the donor.

##### **The R. M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund**

The R. M. Harpham, Moody/Nolan, Ltd., Spencer & Spencer Inc. Minority Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the firms R. M. Harpham, Moody/Nolan, Ltd., and Spencer & Spencer Inc., of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship awards for Black American students entering their first year of study in the School of Architecture who plan to major in architecture at The Ohio State University. The recipient will be chosen based on financial need and the likelihood that the candidate will complete course work in architecture and enter the profession. The scholarship's intent is to encourage Black students to enter architecture. Selection will be made by the Department of Architecture Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The All American Youth Horse Show Endowment Fund**

The All American Youth Horse Show Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the All American Youth Horse Show Foundation, Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide an academic scholarship to one or more twelfth-grade students who are members of the 4-H horse program, planning to enroll each autumn quarter at The Ohio State University or other accredited post-secondary institution in any course of study. Applicants for this award shall be judged on their level of 4-H involvement (40%), experiences in other youth organizations (20%), future plans and potential for success (20%) and need for the scholarship (20%). Awarding of this scholarship shall be made in accordance with the rules and procedures set forth by the State 4-H Office and in consultation with the All American Youth Horse Show Foundation and The Ohio State University Committee on Student Financial Aid. Any income not used in a given year will be added to the principal at the end of that fiscal year.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

##### **The Martha Miller Lotman Memorial Scholarship Fund**

The Martha Miller Lotman Memorial Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from family members, in honor of Martha Miller Lotman, formerly of Marion, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five (85%) shall be used for one or more scholarships to deserving students who are qualified to enroll at The Ohio State University, Marion Campus. Preference for scholarship awards shall be given to those students majoring in journalism, communication or English. The selection of the recipient(s) will be made by a committee consisting of a designated member of the family, and the University Committee on Financial Aid at the Marion Campus. The University shall make all reasonable attempts to contact a family member to have a representative present during the selection process. The successor to the above committee will be The Ohio State University Committee on Student Financial Aid in consultation with the Dean of The Ohio State University at Marion. Unused income in any given year shall be added to the principal of the fund.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Martha Miller Lotman Memorial Scholarship Fund**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official of the University then responsible for student scholarship awards to students of the Marion, Ohio, area in order to carry out the desire of the donors.

**The Sigmund & Rita Munster and Family  
Athletic Endowment Fund (contd)**

The Sigmund & Rita Munster and Family Athletic Endowment Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Sigmund Munster family of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide funds for the grant-in-aid (scholarship) costs of a student-athlete who is a member of the football squad. Selection of the recipients is to be made by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to the recommendations from the appropriate administrative official of the University then responsible for the intercollegiate athletic program in order to carry out the desire of the donors.

**Change in Description of Named Fund**

**The Optometry Class of 1953 Endowed Scholarship Fund**

The Optometry Class of 1953 Endowed Scholarship Fund was established November 30, 1979, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from members of the College of Optometry Class of 1953. The description was changed February 3, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students in the College of Optometry and/or graduate students in physiological optics, with first preference going to a junior-year student who has shown extreme proficiency in the clinical application of optometry. Selection of the recipient(s) is to be made by the University Committee on Student Financial Aid with recommendations from the approved advisors of the Optometry Class of 1953, so long as they survive, with assistance from the Director of the Clinic. Upon the demise of all members of the

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Description of Named Fund (contd)**

##### **The Optometry Class of 1953 Endowed Scholarship Fund (contd)**

Optometry Class of 1953, the Dean of the College of Optometry shall assist with the selection process in conjunction with the Director of the Clinic.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - December 1988

#### **Federal Research Contracts/Grants**

\$1,486,777.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, Medicine Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)

\$666,237.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Otitis Media with Effusion: Human Studies, Department of Otolaryngology (D. J. Lim), 1 December 1988 through 30 November 1989. (Project 760043 - Continuation)

\$355,468.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biochemistry of Natural Products, Biotechnology Program (P. E. Kolattukudy), 1 January 1989 through 31 December 1989. (Project 766224 - Continuation)

\$344,993.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1989 through 31 December 1989. (Project 761094 - Continuation)

\$280,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka, and W. W. Wada), 16 November 1988 through 31 December 1988. (Project 762116 - Continuation)

\$218,440.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, NLS Resurvey: Older Male Survivors and Decedents' Widows, Center for Human Resource Research (H. S. Parnes), 1 December 1988 through 30 November 1989. (Project 767203 - New)

\$194,444.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Function and Assembly of Carbon Dioxide Assimilatory Enzymes, Department of Microbiology (F. R. Tabita), 1 January 1989 through 31 December 1989. (Project 767196 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$181,717.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of the Gene Expression in Neurospora, Department of Biochemistry (G. A. Marzluf), 1 January 1989 through 31 December 1989. (Project 760578 - Continuation)

\$180,469.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Novel Antineoplastic Agents from Higher Plants, College of Pharmacy (J. M. Cassidy and R. W. Doskotch) and Department of Pathology (R. E. Stephens), 1 December 1988 through 30 November 1989. (Project 767168 - New)

\$176,446.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Genetic and Molecular Studies of RNA Splicing, Department of Molecular Genetics (P. S. Perlman), 1 December 1988 through 30 November 1989. (Project 763452 - Continuation)

\$160,926.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Phase I and Clinical Pharmacokinetic Studies of Anticancer Agents, Comprehensive Cancer Center and Department of Internal Medicine (M. R. Grever) and College of Pharmacy (L. Malspeis), 1 December 1988 through 31 May 1989. (Project 764860 - Continuation)

\$150,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, The Physics of Submicron Systems, Department of Physics (J. W. Wilkins), 1 October 1988 through 30 September 1989. (Project 767184 - New)

\$150,000.00 - National Science Foundation, Washington, D.C., Catalytic Site of Calmodulin-Dependent Protein Kinases, Department of Chemistry (M. M. King), 1 February 1989 through 31 January 1991. (Project 767220 - New)

\$147,983.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Research Triangle Park, North Carolina, DNA Damage Following Exposure to Genotoxin, Department of Radiology (A. A. Wani, S. M. D'Ambrosio and R. M. Snapka), 1 December 1988 through 30 November 1989. (Project 762787 - Continuation)

\$139,250.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stereochemistry of Enzyme Reactions to Phosphorus, Department of Chemistry (M. D. Tsai), 1 December 1988 through 30 November 1989. (Project 762722 - Continuation)

\$127,316.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Linking Maternal Employment and Child Care Arrangements to Child Development, Department of Sociology (T. L. Parcel), 12 December 1988 through 30 November 1989. (Project 767226 - New)

\$119,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Identification of Airborne Radar Targets, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton, F. D. Garber and R. L. Moses), 11 January 1989 through 30 April 1989. (Project 765216 - Continuation)

\$100,000.00 - Department of the Air Force, Air Force Systems Command, Wright- Patterson Air Force Base, Ohio, Scatterer Modeling/Calibration Study, ElectroScience Laboratory, Department of



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

Electrical Engineering (R. J. Marhefka), 1 October 1988 through 30 September 1989. (Project 766957 - Continuation)

\$98,551.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, A Fundamental Investigation into the Joining of Advanced Light Materials, Department of Welding Engineering (W. A. Baeslack, III), 1 April 1989 through 31 March 1990. (Project 766676 - Continuation)

\$88,774.00 - National Science Foundation, Washington, D.C., Development of a Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) Laboratory Based on Workstations and Computer-Aided Modeling Machines, Department of Mechanical Engineering (G. L. Kinzel), 15 November 1988 through 31 October 1990. (Project 767214 - New)

\$84,778.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Bone-Cement Interface Biomechanics, Department of Surgery (A. S. Litsky), 1 December 1988 through 30 November 1989. (Project 767202 - New)

\$83,202.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Free Flight Composite Head Development, Department of Mechanical Engineering (J. A. Collins), 1 January 1989 through 31 December 1989. (Project 765776 - Continuation)

\$80,784.00 - Department of Agriculture, Forest Service, Broomall, Pennsylvania, Measurement of Forest Condition and Response Along an Atmospheric Deposition Gradient, Laboratory for Environmental Science - OARDC (J. R. McClenahan), 1 October 1988 through 31 December 1989. (Project 767211 - New)

\$78,221.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Recombinant Pharmaceutical Protein Production in Eggs, Department of Dairy Science - OARDC (C. P. Hodgson), 1 January 1989 through 31 December 1989. (Project 767179 - New)

\$77,848.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Function in a Hibernator: Adaptive Changes, Department of Physiology (H. V. Carey), 1 January 1989 through 31 December 1989. (Project 766634 - Continuation)

\$75,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, The Effects of Magnetic Nozzle Configurations on Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 January 1989 through 31 December 1989. (Project 766488 - Continuation)

\$60,961.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Oxidate PMN/Periodontium Interaction in Oral Disease, Diagnostic Services (S. R. Mallery and C. M. Allen) and Department of Physiological Chemistry (A. J. Merola), 1 December 1988 through 30 November 1989. (Project 765142 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$60,100.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (C. Jayaprakash), 1 January 1989 through 31 December 1989. (Project 764850 - Continuation)

\$58,216.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypothalamic Neuronal Sensitivity in Pregnant WKY/SHR Rats, Department of Physiology (J. A. Boulant and D. Christenson), 1 December 1988 through 30 November 1989. (Project 765130 - Continuation)

\$50,000.00 - National Science Foundation, Washington, D.C., Theoretical Studies of Equilibrium and Non-Equilibrium Multi-Layer Films, Department of Physics (W. F. Saam and C. A. Ebner), 1 May 1989 through 30 April 1990. (Project 766478 - Continuation)

\$48,658.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Supplemental Funds to Initiate, Improve, or Expand a Program of Cooperative Education, Arts and Sciences Administration, Business Administration and Engineering Administration (R. Arkin), Agricultural Technical Institute-Administrative Support (D. D. Garrison), School of Health, Physical Education and Recreation (W. A. Sutton), and Education Administration (J. J. Buffer), 1 October 1988 through 30 September 1989. (Project 767117 - Continuation)

\$45,939.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Ultrasonic Near-Subbottom Characterization and Correlation with Time Variations in Entrainment and Deposition, Department of Civil Engineering (K. W. Bedford and C. M. Libicki), 1 January 1989 through 31 December 1989. (Project 766605 - Continuation)

\$45,000.00 - National Aeronautics and Space Administration, Washington, D.C., Cellular Polarity and Interactions in Plant Gravitropism, Department of Botany (F. D. Sack), 15 December 1988 through 14 December 1989. (Project 764883 - Continuation)

\$39,923.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Target Signature Modeling and Bistatic Scattering Measurement Studies, ElectroScience Laboratory, Department of Electrical Engineering (R. J. Marhefka), 1 December 1988 through 31 August 1989. (Project 767063 - Continuation)

\$29,447.00 - Department of Agriculture, Science and Education, Washington, D.C., Institutional Support from the Animal Health and Disease Research Act of 1977, Veterinary Medicine Administration (R. A. Wright), 1 October 1988 through 30 September 1989. (Project 762621 - Continuation)

\$28,396.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Robust Stability and Performance for Linear Systems with Combined Structured and Unstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yadavalli), 1 October 1988 through 15 September 1989. (Project 766964 - Continuation)

\$24,932.00 - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, Case Management of Adolescents with Chronic Diseases, Center on Education and Training for Employment (R. D. Ryan), 1 October 1988 through 30 June 1989. (Project 767195 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$20,115.00 - Department of Education, Office of Educational Research and Improvements, Washington, D.C., A Multifaceted Mentoring Program for Minority Students on a Regional Campus, Mansfield Campus (J. O. Riedl), 1 September 1988 through 31 August 1989. (Project 766434 - Continuation)

\$20,000.00 - National Science Foundation, Washington, D.C., Interdisciplinary Conference on Axiomatic Systems, Department of Mathematics (H. Friedman), 1 November 1988 through 31 October 1989. (Project 767183 - New)

\$20,000.00 - Department of the Air Force, Air Force Systems Command, Wright- Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 October 1988 through 30 November 1988. (Project 766464 - Continuation)

\$19,871.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Decentralized Control and Identification Experiments for the NASA Langley Research Center SCOLE (Spacecraft Control Laboratory Experiment Program), Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 January 1989 through 31 August 1989. (Project 765807 - Continuation)

\$15,000.00 - National Science Foundation, Washington, D.C., Conference on Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 1 December 1988 through 30 November 1989. (Project 767193 - New)

\$5,855.00 - National Science Foundation, Washington, D.C., Systematics of Arali (Araliaceae), Department of Botany (T. F. Stuessy), 15 November 1988 through 30 November 1990. (Project 767178 - New)

**TOTAL - FEDERAL AWARDS**

**\$6,439,037.00**

**State of Ohio Research Contracts/Grants**

\$229,899.00 - State of Ohio, Department of Development, Columbus, Ohio, Ohio State University Institute for Japanese Studies, Department of Political Science (B. M. Richardson), 1 July 1988 through 30 June 1990. (Project 767209 - Continuation)

\$100,640.00 - State of Ohio, Department of Education, Columbus, Ohio, Reading Recovery Project, Department of Educational Theory and Practice (G. S. Pinnell), 1 July 1988 through 30 September 1989. (Project 767218 - Continuation)

\$35,880.00 - State of Ohio, Board of Regents, Columbus, Ohio, Enhancing Mathematics Through Technology, Department of Mathematics (F. Demana), 15 July 1988 through 31 December 1989. (Project 767194 - New)

\$28,328.00 - State of Ohio, Department of Development, Columbus, Ohio, Foot Force Monitoring Device, Department of Surgery (A. S. Litsky), 1 November 1988 through 31 October 1989. (Project 767190 - New)

\$26,900.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Academic Affairs Administration (R. E. Bailey), 1 July 1986 through 30 June 1987. (Project 765536 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$4,411.76 - State of Ohio, Department of Education, Columbus, Ohio, TRIO Subsidy Program, Office of Minority Affairs (L. G. Morrow), 1 July 1988 through 30 June 1989. (Project 766723 - Continuation)

\$500.00 - State of Ohio, Department of Development, Columbus, Ohio, Youth Correction and Population Management in Ohio: A Policy Development Project, School of Public Policy and Management (C. R. Huff), 1 June 1988 through 31 December 1988. (Project 766240 - Continuation)

\$133.34 - State of Ohio, Department of Development, Columbus, Ohio, Retention and Expansion of Existing Businesses, Department of Agricultural Economics and Rural Sociology - OARDC and Cooperative Extension State Operations (G. W. Morse), 1 June 1987 through 30 September 1988. (Project 765667 - Continuation)

**TOTAL - STATE OF OHIO AWARDS** **\$ 426,692.10**

**Industrial Research Contracts/Grants**

\$2,224,757.00 - Cray Research, Inc., Mendota Heights, Minnesota, Research and Development Agreement with Cray Research, Inc., Ohio Supercomputer Center (C. F. Bender), 1 November 1989 through 31 October 1992. (Project 766446 - Continuation)

\$355,463.00 - Pfizer, Inc., Groton, Connecticut, A Multiple Dose, Double- Blind, Placebo-Controlled Study of the Safety, Toleration and Pharmacokinetics of CP-72,467 in Healthy Male Volunteers, Department of Pharmacology (N. Gerber), 6 September 1988 through 5 March 1989. (Project 765696 - Continuation)

\$90,000.00 - Roerig/Pfizer, New York, New York, A Prospective, Open, Non- Comparative Study of Cefoperazone-Sulbactam in the Treatment of Patients with Serious Infections, Department of Internal Medicine (R. J. Fass), 1 October 1988 through 30 September 1989. (Project 767181 - New)

\$80,589.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Assess the Potential of Sertraline to Alter Steady State Serum Lithium Levels and Renal Clearance of Lithium in Healthy Volunteers, Department of Pharmacology (N. Gerber), 6 October 1988 through 5 April 1989. (Project 765696 - Continuation)

\$76,881.00 - Pfizer, Inc., Groton, Connecticut, Evaluation of the Safety, Clinical Activity, Toleration and Pharmacokinetics of CP-80,794 -- A Single Escalating Dose Study in Normotensive Healthy Volunteers, Department of Pharmacology (N. Gerber), 18 October 1988 through 17 April 1989. (Project 765696 - Continuation)

\$49,900.00 - Teledyne CAE, Toledo, Ohio, Propfan Characterization Study, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 1 January 1989 through 31 December 1989. (Project 766312 - Continuation)

\$39,851.00 - Boeing Aerospace Company, Seattle, Washington, Frequency Selective Surfaces, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk and L. W. Henderson), 1 December 1988 through 30 November 1989. (Project 767222 - New)

\$39,150.00 - Pfizer, Inc., Groton, Connecticut, Azithromycin in the Treatment of Streptococcal Pharyngitis in Outpatients -- A Multicenter, Third Party, Blinded Trial Employing Penicillin V as a Comparative Agent, University Health Service (D. I. Charles), 1 October 1988 through 30 September 1989. (Project 767199 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$38,000.00 - PepsiCo, Inc., Valhalla, New York, Isolation and Characterization of the Protein Fraction of Gum Arabic, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 1 January 1989 through 31 December 1989. (Project 766532 - Continuation)

\$37,852.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Effect of Concomitant Cimetidine Administration on the Absorption of Azithromycin, Department of Pharmacology (N. Gerber), 26 October 1988 through 25 April 1989. (Project 765696 - Continuation)

\$37,307.27 - Merck and Company, Iselin, New Jersey, Determination of the Efficacy of Norfloxacin for the Treatment of Bacterial Skin Infections in Dogs, Department of Veterinary Clinical Sciences (J. J. Kowalski, K. W. Kwochka and D. J. Chew), 1 November 1988 through 31 January 1989. (Project 767204 - New)

\$30,309.71 - Merck and Company, Iselin, New Jersey, Determination of the Efficacy of Norfloxacin for the Treatment of Bacterial Urinary Tract Infections in Dogs, Department of Veterinary Clinical Sciences (J. J. Kowalski, D. J. Chew and K. W. Kwochka), 1 November 1988 through 31 January 1989. (Project 767205 - New)

\$24,964.00 - General Electric Company, Cincinnati, Ohio, Electromagnetic Characterization of Detailed Design Features of Aircraft/Engine Exhaust Systems, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak, L. Peters, Jr. and R. C. Chou), 15 July 1988 through 14 July 1989.

\$14,684.00 - Danninger Medical Technologies, Inc., Columbus, Ohio, Foot Force Monitoring Device, Department of Surgery (A. S. Litsky), 1 November 1988 through 31 October 1989. (Project 767227 - New)

\$10,000.00 - Stuart Pharmaceuticals, Wilmington, Delaware, A Multicenter Comparison of Zoladex Depot and Surgical Castration in Metastatic Prostate Carcinoma, Department of Surgery (J. R. Drago), 1 September 1985 through 30 June 1989. (Project 765067 - Continuation)

\$7,975.00 - Triton Biosciences, Inc., Alameda, California, Open-Label Phase II Study to Evaluate the Safety and Efficacy of High Dose IFN-Beta in Patients with Renal Cell Carcinoma, Department of Internal Medicine (J. J. Rinehart), 31 March 1986 through 31 March 1989. (Project 765338 - Continuation)

\$7,815.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Group Work and Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 January 1989 through 31 May 1989. (Project 767207 - Continuation)

\$3,807.00 - AT&T Bell Laboratories, Columbus, Ohio, Improving the Written Communication Skills of Non-Native Speakers of English in the Work Setting Through Individualized Tutorial, English as a Second Language Program (R. N. Kantor), 1 October 1988 through 30 June 1989. (Project 767206 - Continuation)

\$3,504.00 - Pet-Ag, Inc., Elgin, Illinois, Evaluation of Liquid Food Supplements in Cat Diets, Department of Veterinary Clinical Sciences (C. A. Buffington), 21 November 1988 through 30 May 1989. (Project 767180 - New)

February 3, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$3,451.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1988 through 31 December 1988. (Project 762165 - Continuation)

TOTAL - INDUSTRIAL AWARDS \$ 3,176,259.98

#### Other Non-Federal Research Contracts/Grants

\$434,183.00 - Indonesian Government, Jakarta, Indonesia, Refresher C Programs for Faculties of the Institutes for Teacher Training and Education and for the Faculties of Teacher Training and Education of Indonesia, Education Administration (J. J. Buffer), 1 October 1988 through 31 July 1989. (Project 767165 - Continuation)

\$142,818.00 - National Training Fund for the Sheet Metal and Air-Conditioning Industry, Washington, D.C., National Training Fund University Center for the Sheet Metal and Air-Conditioning Industry, 1989-91, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 December 1989. (Project 767175 - Continuation)

\$90,500.00 - American Cancer Society, Atlanta, Georgia, Genetic Characterization of Novel Elements in Protein Membrane Assembly, Department of Chemistry (R. E. Dalbey), 1 January 1989 through 31 December 1991. (Project 767189 - New)

\$69,000.00 - American Cancer Society, New York, New York, Characterization of Mouse I Region Recombination Hot Spots, Department of Microbiology and Immunology (W. P. Lafuse), 1 January 1989 through 31 December 1989. (Project 765788 - Continuation)

\$68,738.00 - University of Texas, Galveston, Texas, Studies of Mechanism and Therapy of Human Immunodeficiency Virus Cytotoxicity, Department of Veterinary Pathobiology (J. L. Rojko), 1 September 1988 through 31 August 1989. (Project 766650 - Continuation)

\$58,445.00 - The University of Iowa, Iowa City, Iowa, Cystic Fibrosis Research Center: Membrane Biology of Cystic Fibrosis, Department of Zoology (D. L. Stetson), 30 September 1988 through 29 September 1989. (Project 767188 - New)

\$41,602.00 - Dade County Public Schools, Miami, Florida, Dropout Prevention for At-Risk, Limited English Proficient Students, Center on Education and Training for Employment (R. D. Ryan), 1 October 1988 through 30 September 1989. (Project 767174 - New)

\$30,000.00 - Pew Memorial Trust, Philadelphia, Pennsylvania, Pew National Veterinary Education Program -- Phase III, Veterinary Medicine Administration (R. A. Wright), 14 September 1988 through 31 October 1989. (Project 767173 - New)

\$20,000.00 - Canadian Government, Quebec, Canada, Canadian Radio-Television and Telecommunications Commission Contract, National Regulatory Research Institute (D. N. Jones), 15 November 1988 through 31 March 1989. (Project 767197 - New)

\$15,000.00 - Deafness Research Foundation, New York, New York, Role of Fimbriae in the Adherence of Nontypable Hemophilus influenzae to Nasopharyngeal and Middle Ear Mucosa, Department of Otolaryngology (L. A. Bakaletz), 1 January 1989 through 31 December 1989. (Project 765827 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$15,000.00 - Deafness Research Foundation, New York, New York, Antibody Levels Directed Against the Outer Membrane Proteins of Hemophilus influenzae from Patients with Chronic Otitis Media with Effusion, Department of Otolaryngology (T. DeMaria), 1 January 1989 through 31 December 1989. (Project 765840 - Continuation)

\$14,768.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1988 through 30 June 1989. (Project 766574 - Continuation)

\$12,000.00 - Research Corporation, Tucson, Arizona, Metal Ion Catalysis in Phosphoryl Transfer from Polyphosphates, Department of Chemistry (D. L. Leussing), 1 January 1989 through 31 December 1990. (Project 767221 - New)

\$9,968.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, English as a Second Language Program (T. T. Diemer), 1 January 1989 through 31 March 1989. (Project 764972 - Continuation)

\$7,874.00 - University of Washington, Seattle, Washington, Gonadotropin Patterns and Ovarian Function, Department of Obstetrics and Gynecology (C. I. Friedman and M. H. Kim), 1 September 1988 through 31 August 1989. (Project 767217 - New)

\$7,150.00 - Cornell University, Ithaca, New York, Design, Prototype, and Debug Mixer-Shaper Boards for CLEO, Department of Physics (H. P. Kagan and R. D. Kass), 1 January 1988 through 31 December 1988. (Project 766574 - Continuation)

\$5,000.00 - Sigma Kappa Sorority Foundation, North Little Rock, Arkansas, An Improved Animal Model for Alzheimer's Disease: The Effect of Long-Term Nucleus Basalis Lesions on Dendritic Morphology in Golgi-Impregnated Neurons of Young and Old Rats, Department of Pathology (R. F. Mervis), 15 September 1988 through 14 September 1989. (Project 767198 - New)

\$5,000.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1988 through 31 December 1988. (Project 767147 - Continuation)

\$4,000.00 - University of Nebraska, Lincoln, Nebraska, Sustainable Agriculture Educational Displays, Department of Entomology (C. A. Edwards), 1 June 1988 through 30 September 1989. (Project 767191 - New)

\$4,000.00 - National Geographic Society, Washington, D.C., Planning Grant for a Geographic Alliance Network, Department of Geography (W. R. Smith) and Mereshon Center for Education (R. C. Remy), 1 October 1988 through 30 November 1989 (Project 767215 - New)

\$3,000.00 - University of Alabama at Birmingham, Birmingham, Alabama, Intergroup Melanoma Study, Department of Surgery (W. B. Farrar), 1 July 1988 through 30 June 1989. (Project 767201 - New)

February 3, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$2,500.00 - Egyptian Government, Washington, D.C., Cultural and Educational Bureau -- Peace Fellowship Program, Department of Biochemistry (D. H. Dean), 30 October 1988 through 29 March 1989. (Project 767216 - New)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$1,060,546.00**

### **ENGINEERING EXPERIMENT STATION**

#### **Industrial and Other Sponsored Research and Development**

\$36,918.00 - from 48 sponsors of 60 development projects in two departments/research areas of the College.

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The E. F. Wildermuth Foundation Professorship Fund in Optometry**

The E. F. Wildermuth Foundation Professorship Fund in Optometry was established February 3, 1989, by the Board of Trustees of The Ohio State University with an initial gift of \$50,000 and a five-year pledge and agreement with The Ohio State University Development Fund from the E. F. Wildermuth Foundation of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income for the first five years (pledge period) shall be used at the discretion of the Dean of the College of Optometry, with the understanding that priority consideration be given to scholarship support for one or more students enrolled in the College of Optometry at The Ohio State University. Accordingly, selection of scholarship recipient(s) shall be made by the University Committee on Student Financial Aid.

After the University receives the full amount of the cash pledge by the E. F. Wildermuth Foundation (\$250,000), the University will transfer up to \$250,000 funds from the existing E. F. and Kathryn M. Wildermuth Memorial Endowment - Optometry Fund, to bring the E. F. Wildermuth Foundation Professorship Fund in Optometry up to the minimum of \$500,000. Once the endowment reaches \$500,000, a minimum of ten percent of the annual earnings from the total accumulated principal shall be returned to principal each year in perpetuity. The remaining ninety percent (90%) of annual income shall be used to provide compensation and/or program support for truly distinguished scholars in Optometry. Appointment of the Professorship will be recommended by the Dean of the College of Optometry after consultation with the appropriate academic selection committees. Final approval will be made by the Provost, the President, and the Board of Trustees.

It is the desire of the donor that this fund should benefit the University in perpetuity. The trustees of the E. F. Wildermuth Foundation shall retain input on the uses and direction of the professorship, through access and relations with the Dean of the College of Optometry. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors.



## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Edward M. Alkire Scholarship Fund**

The Edward M. Alkire Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Edward M. Alkire (B.A. Arts & Sciences '29, M.A. '30) of Laguna Hills, California.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more academic scholarships for junior, senior, and/or graduate students enrolled full-time in the College of Social and Behavioral Sciences with a major course of study in mental health. The selection of the recipient(s) of the award(s) will be made by a committee from the Department of Psychology in coordination with the University Committee on Student Financial Aid.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **The Derek H. Busch Memorial Award Fund**

The Derek H. Busch Memorial Award Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. and Mrs. Daryle Busch of Columbus, Ohio, in memory of Derek H. Busch.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund a yearly scholarship or award for graduate or undergraduate students enrolled in the School of Music with a major in piano. Award or scholarship recipients shall be selected by the Dean of the College of The Arts, or his/her designee, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, School of Music director, or program administrative officer in order to carry out the desire of the donors.

##### **The W. Chaney and Jane S. Vance Family 4-H Fund**

The W. Chaney and Jane S. Vance Family 4-H Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from W. Chaney and Jane S. Vance (B.S.H.E. '41), of Pickaway County, Ohio, and by their children: Wm. Gerald (B.S.Agr. '66) of Columbus, Ohio; Lawrence G. (B.S.Agr. '66) of Dublin, OH; Barbara J. (M.S., Home Economics, '88) of Mount Sterling, Ohio; and Linda S. (B.S.Agr. '71) of New York, New York.

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The W. Chaney and Jane S. Vance Family 4-H Fund (contd)**

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to grant one or more scholarships to current or former 4-H members from the State of Ohio who are entering with intention to enroll or are currently enrolled in the College of Agriculture or the College of Home Economics at any of the campuses of The Ohio State University. Scholarship awards shall be based on merit (scholarship, leadership, and community service). Student recipients shall also exemplify the ideals of 4-H. Award recipients shall be selected by the 4-H Awards Selection Committee in consultation with the scholarship coordinators of the College of Agriculture and the College of Home Economics and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**Change in Name and Description of Named Fund**

**The Steve R. and Sarah E. O'Donnell  
Professorship in Philosophy**

The Department of Philosophy Faculty Support Fund was established June 5, 1987, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Steve R. O'Donnell (B.E.E. '62, M.S. '63) and Sarah E. O'Donnell of Westerville, Ohio. The name and description were changed February 3, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide compensation and/or program support for truly distinguished scholars in philosophy. Appointment of the O'Donnell Professorship will be recommended by the Dean of the College of Humanities after consultation with the appropriate academic selection committees. Final approval will be made by the Provost, the President, and the Board of Trustees.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**EASEMENT  
BUCKEYE RURAL ELECTRIC CO-OPERATIVE, INC.**

Resolution No. 89-79

Synopsis: Authorization to grant an easement to the Buckeye Rural Electric Co-operative, Inc., for relocation of electric service pole lines is requested.

WHEREAS The Buckeye Rural Electric Co-operative, Inc. has requested a 15-year easement consisting of a strip of land five feet in width and approximately 1,639 feet in length for the installation of electric pole lines along State Route 93 in Jackson County, Ohio; and

WHEREAS the University has granted a right of entry to Buckeye Rural Electric Co-operative, Inc. for the work that has been performed; and

WHEREAS the electric service will serve University property and private property; and

WHEREAS the Buckeye Rural Electric Co-operative, Inc. agrees to compensate the University with a lump sum payment of \$500.00 in consideration of the granting of this easement; and

WHEREAS the appropriate University offices have recommended that this easement be granted:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Kessler, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXVI for map of Buckeye Rural Electric Co-Operative, Inc. Easement at the Jackson County Branch of the Ohio Agricultural Research and Development Center, page 799.)

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Mr. Scott

Mr. Chairman, just one brief announcement -- it looks like we have a number of schedule conflicts for March -- people being out of town and not being available. There is a real likelihood that we will not schedule the regular Board meeting for March. As soon as we know, we will try to let you know. In the event that we don't have a March Board meeting then the next regular Board meeting will be April 7, 1989.

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Thereupon the Board adjourned.

Attest:

Madison H. Scott  
Secretary

Leonard J. Immke  
Chairman

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APPENDIX XV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
January 20, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 671)



Office of the Treasurer

Riverwatch Tower - Suite B  
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**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
January 20, 1989**

**Endowment Composition**

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>01-20-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 38,139,473	17.09%
Nicholas-Applegate	10,454,591	5.10	10,543,708	4.72
Siebel	34,428,707	16.81	35,540,227	15.93
Mutual Fund	17,462,592	8.53	18,201,686	8.16
OSU Managed	<u>1,282,386</u>	<u>16.25</u>	<u>49,233,803</u>	<u>22.07</u>
<b>Total Equities</b>	<b>\$133,632,655</b>	<b>65.24%</b>	<b>\$151,658,897</b>	<b>67.97%</b>
<b>Fixed Income:</b>				
Cambridge	\$ 921,925	0.45%	\$ 921,813	0.41%
Centerre Trust	21,547,467	10.52	21,870,479	9.80
Duff & Phelps	9,983,561	4.87	9,817,127	4.40
STW Fixed Income	22,300,069	10.89	22,545,505	10.11
OSU - GNMA	9,954,372	4.86	9,811,444	4.40
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,499,131</u>	<u>2.91</u>
<b>Total Fixed Income</b>	<b>\$ 71,210,234</b>	<b>34.76%</b>	<b>\$ 71,465,499</b>	<b>32.03%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$204,842,889</b>	<b><u>100.00%</u></b>	<b>\$223,124,396</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 43,089,186</b>		<b>\$ 36,574,145</b>	(1)
<b>Total Portfolio</b>	<b><u>\$247,932,075</u></b>		<b><u>\$259,698,541</u></b>	

1) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value January '88 to January '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.53% (1)	8.64%	12.17%
Common Stock (Nicholas-Applegate)	1.93 (2)	14.91	16.84
Common Stock (Siebel)	3.79 (3)	10.74	14.53
Mutual Fund	3.20	18.64	21.84
Common Stock (OSU Managed)	4.16 (4)	17.45	21.61
Standard & Poor's Index	3.94	13.72	17.66
<b>Real Estate:</b>	4.37%	-0- (11)	4.37%
<b>Fixed Income:</b>			
Bonds (Cambridge)	7.80% (5)	(1.03)%	6.77%
Bonds (Centerre Trust)	8.32 (6)	(1.52)	6.80
Bonds (Duff & Phelps)	8.71 (7)	(2.16)	6.55
Bonds (STW Fixed Income)	9.16 (8)	(0.81)	8.35
Bonds (OSU - GNMA)	9.84 (9)	(1.84)	8.00
Bonds (OSU Managed)	7.42 (10)	(1.64)	5.78
Merrill Lynch Corporate/ Government Master	9.12	(1.93)	7.19

- (1) 19.8% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.1%.
- (2) 0.6% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.2%.
- (3) 36.7% of Siebel portfolio is made up of cash and cash equivalents which earn 9.1%.
- (4) 48.5% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.1%.
- (5) 0.1% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.2%.
- (6) 1.3% of Centerre Trust portfolio is made up of cash and cash equivalents which earn 8.2%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.2%.
- (8) 1.0% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.2%.
- (9) 3.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 9.0%.
- (10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.1%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through January 31, 1989, totaled approximately \$8,135,000.
- (13) Income from University Cash Investments through January 31, 1989, totaled approximately \$8,224,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>01-20-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$106,627,811	41.06%
Principal Additions	7,704,621	Fixed Income	65,016,207	25.03
Principal Withdrawals	(99,910)	Real Estate	36,458,000	14.04
Change in Market Value	<u>4,161,755</u>	Cash	<u>51,596,523</u>	<u>19.87</u>
<b>Current Market Value</b>	<b><u>\$259,698,541</u></b>	<b>Total Portfolio</b>	<b><u>\$259,698,541</u></b>	<b><u>100.00%</u></b>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	



The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
6,300	Wetterau, Inc.	Chicago	23.6944	\$ 149,275.00	\$ 6,552.00
7,500	Limited, Inc.	Nicholas-Applegate	27.1988	204,441.20	1,800.00
12,000	Neiman Marcus Group, Inc.	"	16.7512	201,734.50	2,400.00
282	Banc One Corp.*	OSU	23.1543	6,529.50	259.44
20	Figgie International, Inc. Cl. B*	"	92.0000	1,840.00	17.60
50	General Electric Co.*	"	45.3750	2,268.75	82.00
10	General Motors Corp., Cl. H*	"	25.6250	256.25	4.40
250	Huntington Bancshares*	"	17.7500	4,437.50	210.00
783	Putnam High Income Government Trust Fund*	"	10.0900	7,900.47	379.75
600	Standard Products Co.*	"	29.2500	17,550.00	480.00
200	Wendy's International, Inc.*	"	5.6250	1,125.00	48.00
598	Worthington Industries, Inc.*	"	22.0201	13,168.00	263.12
2,500	Apple Computer, Inc.	Siebel	40.8750	102,187.50	600.00
10,000	Becton Dickinson & Co.	"	53.8910	539,610.00	7,400.00
18,000	Holiday Corp.	"	27.2799	492,198.00	0.00
2,500	Motorola, Inc.	"	41.2500	<u>103,300.00</u>	<u>1,600.00</u>
				<u>\$1,847,821.67</u>	<u>\$22,096.31</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
4,000	First Fidelity Bancorp.	Chicago	27.3750	\$ 109,256.35	\$ (43,961.82)
13,500	Oracle Systems Corp.	Nicholas- Applegate	17.9010	241,663.50	(29,261.50)
1,900	TW Services, Inc.	"	26.7500	50,709.30	19,519.52
171	Chevron Corp.*	OSU	47.3750	7,952.85	1.35
20	Figgie International, Inc. CL B*	"	92.5000	1,841.80	1.80
50	General Electric Co.*	"	45.8750	2,274.67	5.92
15	Teledyne, Inc.*	"	331.2500	4,962.43	83.68
9,400	Burlington Northern, Inc.	Siebel	22.7110	212,818.28	28,993.53
28,700	Healthvest, Inc.	"	17.0100	486,161.72	(87,838.28)
12,000	Vista Chemical Co.	"	52.2550	<u>626,319.09</u>	<u>5,319.09</u>
				<u>\$1,743,959.99</u>	<u>\$ (107,136.71)</u>

\* Gift.

**The Ohio State University  
Bonds/Notes**

**Bonds**

**Purchases Made During Period**

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
900,000	U.S. Treasury Bond 9.125% 05/15/18	Cambridge	8.9874	8.9742	101.5312	\$ 913,781.25
575,000	General Motors Corp. 8.125% 04/15/16	Centerre	9.8565	10.0129	82.4330	473,989.75
3,406,000	U.S. Treasury Bond (Tigrs) 0.000% 11/15/10	"	0.0000	9.4860	13.2560	451,499.36
4,065,000	U.S. Treasury Bond (Tigrs) 0.000% 08/15/13	"	0.0000	9.2800	16.9640	689,586.60
7,170,000	U.S. Treasury Bond 10.375% 11/15/12	STW	9.3591	9.2388	110.8545	7,948,270.82
2,200,000	U.S. Treasury Note 9.250% 08/15/98	"	9.2178	9.1913	100.3494	<u>2,207,687.50</u>
						<u>\$12,684,815.28</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
900,000	U.S. Treasury Bond 8.875% 08/15/17	Cambridge	97.9062	\$ 881,156.25	\$ 1,125.00
500,000	British Petroleum of North America Corp. 10.000% 07/01/18	Centerre	98.9375	494,687.50	(1,937.50)
11,830,000	U.S. Treasury Bond (Tigrs) 0.000% 08/15/14	"	9.5900	1,134,497.00	(27,209.00)
12,320,000	U.S. Treasury Bond 7.250% 05/15/16	STW	82.5164	<u>10,166,022.66</u>	<u>562,134.11</u>
				<u>\$12,676,363.41</u>	<u>\$534,112.61</u>

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46%	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	35,332 (1)	35,332	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	80,813 (1)	80,813	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1988	100,000	100,000	06/88
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/87
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/87
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,447,086</u>	<u>\$36,574,145</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002

Phone 614-292-6261  
Telex: 205261  
Telecopier: 614-292-8643  
Cable: OSU TRES UD

**THE OHIO STATE UNIVERSITY**  
**UNIVERSITY CASH INVESTMENT SUMMARY**  
**As of December 31, 1988**

	<u>Month</u>	<u>Past 12 Months</u>
Cash Income	\$ 1,585,627	\$ 14,546,992
Average Maturity	2.8 years	2.8 years
Asset Balance	\$177,399,000	\$193,288,613
Yield to Maturity	8.050%	7.543%
Donoghue's U.S. Gov't & Agencies 30 day yield	7.780%	6.371%

<u>Portfolio Composition</u>	<u>12-31-88</u>	<u>Percent of Portfolio</u>
U.S. Treasury Notes & Bills	\$ 37,500,000	21.14%
U.S. Government Agencies	<u>\$139,899,000</u>	<u>78.86%</u>
<b>Total</b>	<b><u>\$177,399,000</u></b>	<b><u>100.00%</u></b>



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**MEMORANDUM**

Subject: Proxy Voting  
Date: January 31, 1989  
From: Alvin C. Rodack, Associate Treasurer *Alvin C. Rodack*  
To: Board of Trustees, The Ohio State University

During the months of December 1988 and January 1989, the University voted sixteen proxies.

Management proposals were as follows:

- 1) Election of the Board of Directors;
- 2) Amendment to fix the number of directors at eleven;
- 3) Ratification of independent auditors;
- 4) Approval of a name change for a mutual fund;
- 5) Approval of a change in investment policy for a mutual fund;
- 6) Amendment to limit the liability of the directors and officers;
- 7) Approval of a merger agreement between three entities into one new entity;
- 8) Approval of a new capitalization plan with regard to a merger;
- 9) Amendment allowing for stockholder actions to be taken only during scheduled stockholder meetings;
- 10) Amendment allowing the Board of Directors to issue preferred stock with voting rights;
- 11) Approval allowing the Board of Directors to issue non-convertible preferred stock;
- 12) Amendment to increase common stock shares available for a 1981 stock option plan and an employee stock purchase plan;
- 13) Adoption of a 1989 stock option plan; amendment to a 1986 United Kingdom option program to increase common stock shares available for the plan;
- 14) Ratification of a plan that would eliminate any limitations on the number of shares of common stock for which directors may be granted options.

Shareholder proposals were as follows:

- 1) Require the audit committee to meet a minimum of three times a year;
- 2) Amendment that would bar one individual from holding the position of Chairman, President and Corporate Secretary, concurrently;
- 3) Resolution requiring elimination of business activity, in the Republic of South Africa.

The University voted for all management proposals, for shareholder proposal number three and against shareholder proposals one and two. Management was opposed to all shareholder proposals.

The sixteen corporations were:

- 1) Alberto-Culver Company
- 2) Apple Computer Incorporated
- 3) Black and Decker Corporation
- 4) Cardinal Government Securities Trust
- 5) Cardinal Tax-Exempt Money Trust
- 6) Comdisco Incorporated
- 7) Emerson Electric Company
- 8) Energy Fund Incorporated
- 9) Federal Land Bank Association, Fourth District
- 10) Lubys Cafeterias Incorporated
- 11) National Service Industries Incorporated
- 12) Products Research and Chemical Corporation
- 13) Ralston Purina Company
- 14) Varian Associates Incorporated
- 15) Walgreen Company
- 16) The Walt Disney Company



APPENDIX XVI

RECOMMENDATIONS FROM THE OFFICE OF THE TREASURER  
REGARDING THE ENNIS KNUPP REPORT AND THE INVESTMENT  
POLICY FOR THE OHIO STATE UNIVERSITY ENDOWMENT FUND

Presented to the Investments Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 671)



Office of the Treasurer

Riverwatch Tower - Suite B  
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RECOMMENDATIONS FROM THE OFFICE OF THE TREASURER  
REGARDING THE ENNIS KNUPP REPORT AND THE  
INVESTMENT POLICY FOR THE OHIO STATE UNIVERSITY ENDOWMENT FUND

RECOMMENDATION: OSU'S INVESTMENT PHILOSOPHY GOALS

We believe that the Trustees have done well to establish as a goal to preserve the purchasing power of the endowment. But the University's secondary endowment goal -- to produce a certain level of income yield -- seems incongruous with the University's total-return orientation. In fact, it might cause an inappropriate emphasis of fixed-income securities. We recommend against an emphasis of current income in the policy statement.

COMMENTS: We agree with this recommendation. Total return in order to maintain purchasing power should be emphasized as the goal of the endowment while current income should be a goal of University investments. Modification is needed in the investment policy statement.

RECOMMENDATION: INVESTMENT POLICY AFFECTING THE OVERALL RISK LEVEL

We recommend that the University have an investment policy calling for the following allocation to stocks, bonds, and real estate:

Common stock	60%
Fixed-income	25
Real estate	<u>15</u>
	100%

We believe that this policy will likely provide a long-term return great enough to allow the University to meet its goal of preserving the purchasing power of the endowment given the current spending policy.

COMMENTS: The Office of the Treasurer disagrees that a specific allocation should be made to stocks, bonds, and real estate since this specific allocation could be too restrictive during wide market swings. We would support a narrowing of the current ranges as follows:

Equities	50-75%
Fixed-Income	25-50%
Real Estate	5-20%
Cash	0-20%

#### **RECOMMENDATION: THE UNIVERSITY'S REAL ESTATE INVESTMENTS**

Real estate investments can play an important role in the endowment, providing diversification, consistent and competitive returns, and inflation protection. The University's current endowment real estate investments are highly concentrated. This concentration creates greater uncertainty concerning whether the University will achieve the benefits listed above, but we do not believe that the amount of concentrated real estate investments is imprudent.

We recommend that the University refrain from adding related properties to its concentrated endowment real estate holdings. But, as gift additions and perhaps real estate sales reduce the significance of the concentrated real estate in the endowment, we recommend that the University invest in diversified real estate funds to maintain the 15% policy allocation to real estate.

**COMMENTS:** The Office of the Treasurer agrees that the current percentage is appropriate. We feel geographic diversification is appropriate including the usage of pooled real estate funds. All local real estate holdings are now examined based on their investment merit. We feel if attractive real estate investments arise locally, they should still be considered as a viable endowment investment.

#### **RECOMMENDATION: FURTHERING DIVERSIFICATION**

We recommend that the Trustees further the diversification of the endowment portfolio by adding investments in small-capitalization stocks and foreign stocks.

Small-capitalization stocks represent approximately 30% of the U.S. stock market and have provided greater long-term returns than stocks of larger companies. Foreign stocks represent approximately two-thirds of the world stock market and thus are an important investment opportunity. The returns of both small-capitalization stocks and foreign stocks are imperfectly correlated with large-capitalization stock returns, and could thus provide important diversification benefits to the total endowment.

**COMMENTS:** The Office of the Treasurer feels that investment in foreign equities or fixed income would be appropriate. However, this should be done via a mutual or index fund. The type of domestic equities purchased should be left to the discretion of our advisors.

#### RECOMMENDATION: ASSET ALLOCATION POLICY

We recommend the following overall asset allocation policy for the OSU endowment:

Large-capitalization stock	35%
Small-capitalization stock	15
Foreign stock	<u>10</u>
Total stocks	60%
Bonds	25%
Real estate	<u>15%</u>
Total	100%

This allocation is superior to the current allocation of the endowment of 60% in domestic, large capitalization stocks in that it can be expected to provide a greater rate of return per unit of risk incurred.

COMMENTS: The Office of the Treasurer is opposed to specific allocations. We feel that suggested equity, fixed income, real estate ranges are appropriate. However, breaking these groupings down further (such as small capitalization and foreign equities) is unnecessary. If the trustees feel that a specific sector of the market is desirable in the portfolio, then they can direct the selection of investment advisors, index or mutual funds toward that specific area.

#### RECOMMENDATION: MAINTAINING THE ASSET ALLOCATION

The University's current policy statement allows common stock to vary within a range of 30% to 70% of the endowment. We recommend that the University re-allocate assets as needed to maintain the approximate allocation called for by our policy recommendation. If the level of common stock exposure is allowed to wander within a large range, there can be no assurance of meeting the Trustee's objective of preserving the purchasing power of the endowment.

COMMENTS: As stated previously, the Office of the Treasurer is opposed to specific asset allocation. However, we should support a narrowing of the ranges as they are currently written. The current practice of holding new funds in cash equivalents until annual advisor allocations are made should be revised. Direction should be given to the Treasurer toward the investing of new funds until permanent allocations are made.

#### RECOMMENDATION: USE OF INDEX FUNDS

We believe that the University would benefit by investing a portion of the endowment in Index Funds that match the returns and risk level of various market indices. Index Funds provide broad diversification at a very low cost, provide for the efficient transfer of funds between asset types, require minimal review on the part of the Trustees, and earn consistent, market-like returns.

We recommend that the University use Index Funds for the foreign stock and small-capitalization stock investments, should the Trustees decide to add these asset classes to the endowment. We also recommend that some portion of the large-capitalization stocks and bonds be invested in Index Funds, the amount depending on the Trustees' confidence in the current active investment managers.

COMMENTS: The Office of the Treasurer agrees that indexing would be an appropriate strategy. We agree that indexing should be done for both equities and fixed income, however, we do not necessarily agree that they be used for small capitalization stocks. We believe indexing should be done at a broad level and advisors should be used for more specialized areas. If the purchase of foreign equities is allowed, then we would recommend consideration of an index fund for that purpose. We would also recommend that if indexing is to be utilized, that no less than ten percent of the endowment be indexed.

#### RECOMMENDATION: THE MULTIPLE-MANAGER APPROACH

We are advocates of simplicity where possible in investment programs. The University's endowment has six fixed-income portfolios (including those internally managed) and five common stock portfolios (including the internally managed one and counting the three mutual funds as one). Our recommendations call for the addition of index funds and two new asset classes. At some point the program could become too unwieldy, requiring the Trustees to spend too much time monitoring investment management firms and allowing too little time for policy issues.

There is no optimal number of managers, but the endowment's current arrangement is at the high end of what we believe would make sense for the University.

COMMENTS: The Office of the Treasurer is comfortable with the number of managers currently being used. If indexing is utilized, consideration should be given to hiring additional advisors only for specialized areas.

#### RECOMMENDATION: INTERNALLY MANAGED PORTFOLIOS

As of mid-October, the internally managed stock portfolio represented 31% of the common stock allocation of the endowment. The portfolio is regionally-biased toward Ohio-based firms, and its size, level of risk, concentration, etc., are partially determined by chance, i.e., by the securities the donors choose to give over time.

We recommend that the Trustees ask one or more of the endowment's active managers to periodically review the list, that the Trustees set an upper limit on the internally managed stock of 25% of total stock, and that the University begin to cultivate an understanding with donors that it may hold donated stock for a short time only. We also recommend that the Trustees monitor the performance of the internally managed portfolio as they would any other portfolio.

The internally managed bond portfolio appears to have an important role as a holding place for monies to be redistributed. As long as the University maintains this portfolio at a relatively low level, we believe it serves a useful purpose.

We believe that in establishing the endowment's GNMA portfolio, the Trustees have likely gotten involved in the investment process to a greater degree than is desirable. We recommend that the University rely on its external investment managers to select and monitor specific securities. We favor the elimination of this portfolio and the distribution of its assets among other fixed-income portfolios.

COMMENTS: The Office of the Treasurer disagrees with a limit on any manager including OSU. The key to effective management is diversification of the portfolio as a whole, but not necessarily at the manager level. We agree that providing donors with an understanding that donated stocks may only be held for a short time is appropriate. We feel the Office of the Treasurer should take a more active role in managing the internal stock portfolio and gifts of securities donated to the University. The Trustees are already monitoring the performance of the internally managed portfolio as they would any other portfolio.

We believe a GNMA portfolio adds to the portfolio diversification and that the Office of the Treasurer has the expertise to manage this portfolio.

**RECOMMENDATION: A STATEMENT OF INVESTMENT POLICY**

In Appendix 2 we provide a statement of investment policy that reflects our principal policy recommendations. It excludes references to maximum industry concentrations, position sizes, etc., as we believe that the Trustees can fulfill their duties with respect to diversification through the use of index funds and by requiring the multiple active managers to diversify to the extent they deem appropriate given their roles in the endowment investment program.

**COMMENTS:** The Office of the Treasurer believes that the current investment policy which has been in place since 1981 needs to be revised and updated. Based on what actions are taken regarding the previous recommendations, the Office of the Treasurer is prepared to draft a revised investment policy and present it to the Investment Committee for their review. This policy revision should also include the policy on University Investments.

APPENDIX XVII

PROGRESS REPORT ON THE  
OHIO STATE UNIVERSITY CAMPAIGN

Presented to the Investments Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 671)



The Ohio State University Campaign  
Progress Report  
December 31, 1988

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Dec 88)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$63,816,581	\$9,027,638	\$38,283,424	\$111,127,643	\$122,500,000	91
Friends	32,762,115	4,131,435	28,643,850	65,537,400	70,000,000	94
**Corporations	14,380,162	10,585,214	101,125,935	126,091,311	122,500,000	103
Foundations	<u>3,401,634</u>	<u>3,248,429</u>	<u>19,935,229</u>	<u>26,585,292</u>	<u>35,000,000</u>	76
Totals	\$114,360,492	\$26,992,716	\$187,988,438	\$329,341,646	\$350,000,000	94

\*Defined as pledges and deferred commitments less payments already received.

\*\*Corporations, businesses, associations and private agencies.

\*\*\*FINAL REPORT\*\*\*

THE OHIO STATE UNIVERSITY  
OFFICE OF UNIVERSITY DEVELOPMENT  
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-December  
1987-88 Compared to 1988-89

GIFT RECEIPTS BY DONOR TYPE

	Donors			Dollars		
	July through December			July through December		
	<u>1987-88</u>	<u>1988-89</u>	<u>% Change</u>	<u>1987-88</u>	<u>1988-89</u>	<u>% Change</u>
Alumni	30,878	28,333	(8)	\$5,172,328	\$9,027,638	75
Non Alumni	13,887	13,041	(6)	4,316,609	4,131,435	(4)
Corporations	1,200	1,294	8	4,677,231	7,649,275	64
Corporate Foundations	202	195	(3)	1,120,484	1,349,723	20
Private Foundations	106	115	8	6,978,423	3,248,429	(53)
Other	<u>733</u>	<u>801</u>	9	<u>1,485,997</u>	<u>1,586,216</u>	7
TOTAL	47,006	43,779	(7)	\$23,751,072	\$26,992,716	14

\*\*\*FINAL REPORT\*\*\*

**APPENDIX XVIII**

**REPORT ON CURRICULUM REVIEW**

**Presented to the Academic Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 672)**

REPORT TO THE BOARD OF TRUSTEES  
FROM THE SUBCOMMITTEE ON ACADEMIC AFFAIRS

The goals and the framework of the University's review of undergraduate education were described by the Special Committee on Undergraduate Curriculum Review in its Interim Report of January 1987. A special sub-committee in Arts and Sciences developed a curricular model to address the general education goals set forth by the University Committee. This model was approved by the Arts and Sciences faculty last June.

The Arts and Sciences model includes a strong emphasis on the development of basic skills in writing, data analysis, and foreign languages. It includes a strong science requirement for non-science students. Students will be required to take courses that focus on the United States and Europe, as well as courses that focus on areas other than Europe and the United States. There are new requirements in the areas of social diversity, the arts, and international affairs. The new general education curriculum is spread across a student's total undergraduate program rather than being contained in the first two years, and includes in the senior year a "Contemporary Issues" Capstone course. The requirements are designed to provide a structured, cohesive liberal arts experience for all students.

General education curricular models are now being developed and proposed by the professional colleges. These proposals show strong liberal education being integrated into professional programs. Although alternative ways of meeting general education goals are sometimes proposed, the requirements in the professional colleges are expected to address the same goals of general education that were established by the University Committee.

Having completed the review of general education, departments in Arts and Sciences have moved on to the review of majors and minors. A primary purpose of these reviews is to establish a careful articulation between the requirements of the major and the requirements of general education. It is expected that these reviews in Arts and Sciences will be finished by June. As each professional college finishes its general education review, the college will move on to a review of its major programs.

Curriculum review committees have already begun to receive and review course proposals to meet the new requirements. Special funds have been designated within the Office of Academic Affairs to support new course development, and proposals are being received from the departments. Some new courses are being piloted this year. Full implementation of the new curriculum is expected in the 1990-91 academic year.

APPENDIX XVIII

THE OHIO STATE UNIVERSITY  
DIVISION OF STUDENT AFFAIRS  
OFFICE OF RESIDENCE AND DINING HALLS

Presented to the Student Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 690)

**THE OHIO STATE UNIVERSITY**

**Division of Student Affairs**

**Office of Residence and Dining Halls**

## **MISSION STATEMENT**

**The mission of Residence and Dining Halls is to provide living and learning environments for students, faculty, staff and guests which contribute to and support the University mission of excellence in teaching, research, and service.**

**THE OHIO STATE UNIVERSITY  
OFFICE OF RESIDENCE AND DINING HALLS  
ORGANIZATIONAL OVERVIEW**

William H. Hall  
Director

**Administrative Offices:**

600 Lincoln Tower, 1800 Cannon Drive

**Annual Budget:**

\$36,545,000

**Staffing:**

53 Administrative and Professional  
37 Graduate  
525 Civil Service  
1,250 Student

**Students Housed:**

9,843 Undergraduates  
783 Graduates  
393 Student Families

**Conference/Workshop Bednights:**

81,500 (Average Annual)

**Facilities Managed:**

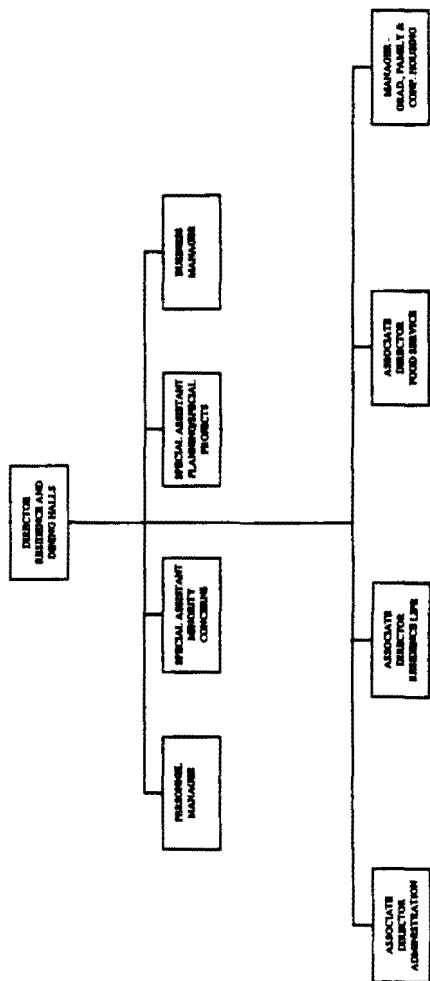
24 Undergraduate Halls  
3 Graduate Halls  
1 Cooperative House  
71 Graduate Apartments  
400 Family Apartments (33 Buildings)  
6 Dining Commons  
2 Regional Housing Operations (10 Buildings)

**Meals Served:**

3,380,000 (Average Annual)

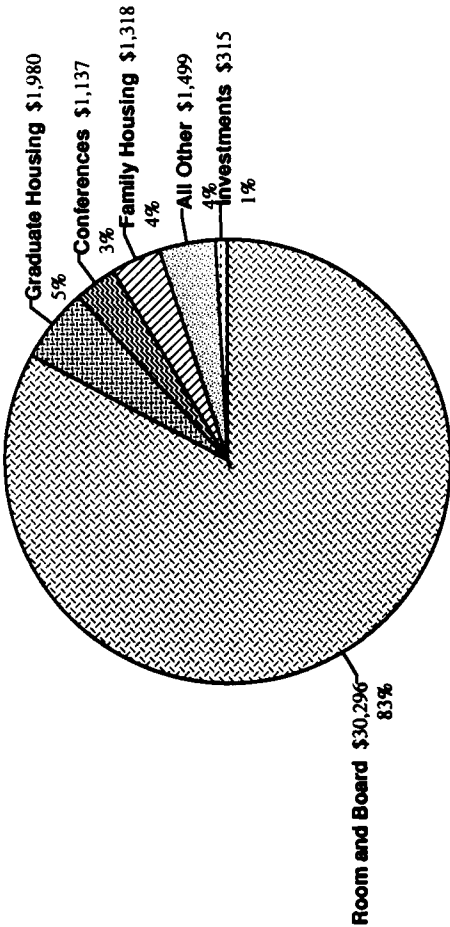


# RESIDENCE AND DINING HALLS ORGANIZATIONAL CHART



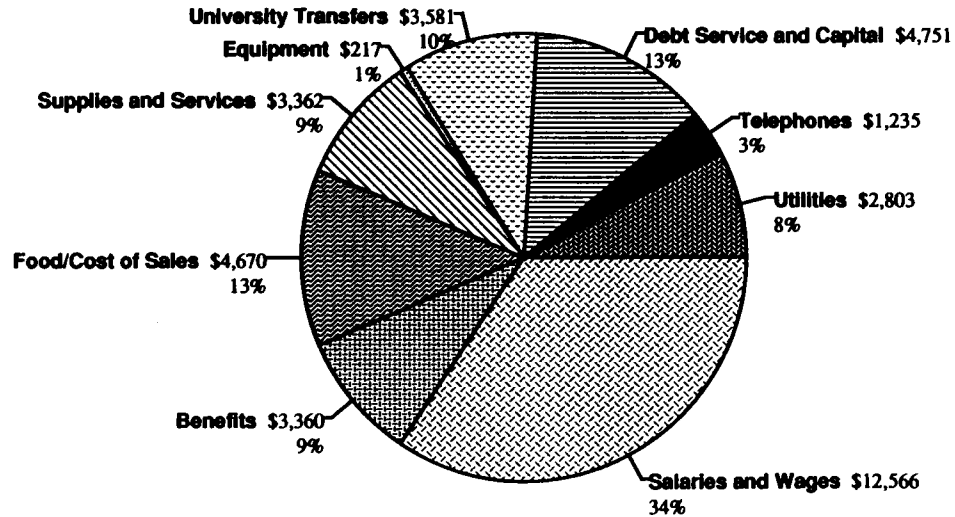
**Residence and Dining Halls  
Budgeted Income Sources**

**1988-89  
\$(000)**



**Total Revenue Budget \$36,545,000**

**Residence and Dining Halls  
Proposed Expenditures Budget  
1988-89  
\$(000)**



**Total Expenditures Budget \$36,545,000**

**RESIDENCE AND DINING HALLS  
CONSOLIDATED OPERATING SUMMARY FOR  
DRF AND HC3 FUNDS**

	<u>FY 83-84</u>	<u>FY 84-85</u>	<u>FY 85-86</u>	<u>FY 86-87</u>	<u>FY 87-88</u>	<u>12/31/88 Projection FY 88-89</u>
<u>Income</u>						
Room and Board	\$30,283,911	\$30,261,149	\$31,225,750	\$31,081,733	\$33,288,950	\$35,849,000
Interest	1,038,356	935,689	694,820	421,996	485,952	700,000
Building Rentals and Miscellaneous	<u>1,077,328</u>	<u>623,713</u>	<u>651,451</u>	<u>1,168,888</u>	<u>681,176</u>	<u>687,000</u>
<u>Total Income</u>	<u>\$32,399,595</u>	<u>\$31,820,551</u>	<u>\$32,572,021</u>	<u>\$32,672,617</u>	<u>\$34,456,078</u>	<u>\$37,236,000</u>
<u>Operating Expenditures</u>						
Labor and Benefits	\$11,738,526	\$12,100,471	\$12,530,851	\$13,681,031	\$14,346,453	\$15,475,000
Food	5,073,475	4,922,833	4,656,402	4,508,421	4,535,697	4,750,000
Utilities	2,826,933	2,868,840	2,617,204	2,377,500	2,466,708	2,878,000
Telephone	744,017	866,585	991,161	998,517	1,048,506	1,340,000
Maintenance and Miscellaneous	3,530,195	2,383,212	3,772,934	5,584,209	4,073,468	4,135,000
Equipment	<u>695,542</u>	<u>336,776</u>	<u>1,322,265</u>	<u>845,931</u>	<u>202,698</u>	<u>217,000</u>
<u>Subtotal</u>	<u>\$24,608,688</u>	<u>\$23,478,717</u>	<u>\$25,890,817</u>	<u>\$27,995,609</u>	<u>\$26,673,530</u>	<u>\$28,795,000</u>
<u>Transfers</u>						
University	\$ 1,749,414	\$ 1,749,734	\$ 1,824,022	\$ 1,803,518	\$ 2,530,050	\$ 3,609,000
Debt Service	2,414,050	2,612,403	2,215,696	2,165,163	2,355,807	2,703,000
Capital	<u>2,052,962</u>	<u>4,632,731</u>	<u>9,584,717</u>	<u>478,178</u>	<u>900,087</u>	<u>2,034,000</u>
<u>Subtotal</u>	<u>\$ 6,216,426</u>	<u>\$ 8,994,868</u>	<u>\$13,624,435</u>	<u>\$ 4,446,859</u>	<u>\$ 5,785,944</u>	<u>\$ 8,346,000</u>
<u>Total Expenditures</u>	<u>\$30,825,114</u>	<u>\$32,473,585</u>	<u>\$39,515,251</u>	<u>\$32,442,468</u>	<u>\$32,459,474</u>	<u>\$37,141,000</u>
<u>Net Income</u>	<u>\$ 1,574,481</u>	<u>\$ (653,034)</u>	<u>\$ (6,943,230)</u>	<u>\$ 230,149</u>	<u>\$ 1,996,604</u>	<u>\$ 95,000</u>
<u>Year End Fund Balances</u>	<u>\$ 7,175,559</u>	<u>\$ 6,522,525</u>	<u>\$ (420,705)</u>	<u>\$ (190,556)</u>	<u>\$ 1,806,048</u>	<u>\$ 1,901,048</u>

**5 YEAR COMPARISON  
BIG TEN HOUSING SURVEY  
FOR PREDOMINANTLY DOUBLE ROOMS  
ROOM AND BOARD RATES  
1984 THROUGH 1989**

School	Room & Board 1984-1985			Room & Board 1985-1986			Room & Board 1986-1987			Room & Board 1987-1988			Room & Board 1988-89			Five Year Average Increase
	\$A	%		\$A	%		\$A	%		\$A	%		\$A	%		
University of Illinois	\$2,670 [4]	\$204	7.6%	\$2,874 [3]	\$136	4.7%	\$3,010 [3]	\$150	5.0%	\$3,160 [3]	\$ 152	4.8%	\$3,312 [3]			5.5%
Indiana University	2,164 [3]	147	6.8	2,311 [3]	115	5.0	2,426 [3]	180	7.3	2,604 [3]	160	6.1	2,764 [3]			6.3
University of Iowa	2,051 [10]	76	3.7	2,127 [10]	117	5.5	2,244 [10]	122	5.4	2,366 [10]	123	5.2	2,489 [10]			5.0
University of Michigan	2,780 [2]	131	4.7	2,911 [2]	142	4.9	3,053 [2]	193	6.3	3,246 [2]	179	5.5	3,425 [2]			5.4
Michigan State University	2,412 [6]	69	2.9	2,481 [6]	57	2.3	2,538 [6]	96	3.8	2,634 [6]	99	3.8	2,733 [6]			3.2
University of Minnesota	2,427 [7]	69	2.8	2,496 [7]	75	3.0	2,571 [7]	129	5.0	2,700 [7]	150	5.5	2,850 [7]			4.1
Northwestern University	3,585 [1]	258	7.2	3,843 [1]	125	3.3	3,968 [1]	129	3.3	4,097 [1]	253	6.2	4,350 [1]			5.0
Ohio State University	2,694 [3]	105	3.9	2,799 [4]	84	3.0	2,883 [4]	144	5.0	3,027 [4]	270	8.9	3,297 [4]			5.2
Purdue University	2,500 [5]	130	5.2	2,630 [5]	110	4.1	2,740 [5]	90	3.3	2,830 [6]	120	4.2	2,950 [6]			4.2
University of Wisconsin	2,440 [6]	130	5.3	2,570 [6]	154	6.0	2,724 [6]	119	4.4	2,843 [5]	147	5.2	2,990 [5]			5.2
"Average"	\$2,572	\$132	5.0%	\$2,704	\$112	4.2%	\$2,816	\$135	4.8%	\$2,950	\$165	5.6%	\$3,115			4.9%

**5 YEAR COMPARISON  
OHIO UNIVERSITIES  
ROOM AND BOARD RATES  
1964 THROUGH 1969**

School	Room & Board 1964-1965		Room & Board 1965-1966		Room & Board 1966-1967		Room & Board 1967-1968		Room & Board 1968-69		Five Year Average Increase
	\$a	1a	\$a	1a	\$a	1a	\$a	1a	\$a	1a	
Baylor Green State University	\$1,888 [11]	\$ 52 2.85	\$1,940 [11]	\$ 78 4.05	\$2,018 [12]	\$ 86 4.35	\$2,104 [12]	\$106 5.05	\$2,210 [11]		4.05
University of Akron	2,406 [6]	144 6.0	2,550 [6]	102 4.0	2,652 [7]	46 1.8	2,700 [6]	108 4.0	2,808 [6]		3.9
Central State University	2,868 [2]	--	2,868 [2]	87 3.0	2,955 [2]	297 10.1	3,252 [2]	291 8.9	3,543 [1]		5.9
University of Cincinnati	2,955 [11]	111 3.8	3,066 [11]	123 4.0	3,189 [11]	66 2.1	3,255 [11]	261 8.0	3,516 [2]		4.5
Kent State University	2,288 [8]	108 4.7	2,396 [8]	96 4.0	2,492 [8]	140 5.6	2,632 [9]	106 4.0	2,738 [9]		4.6
Miami University	2,225 [5]	100 4.5	2,325 [18]	101 4.3	2,426 [11]	110 4.5	2,536 [11]	164 6.5	2,700 [18]		5.0
Ohio University	2,685 [5]	81 3.0	2,766 [5]	111 4.0	2,877 [6]	129 4.5	3,006 [6]	153 5.1	3,159 [6]		4.2
Ohio State University	2,694 [2]	105 3.9	2,799 [2]	84 3.0	2,883 [5]	144 5.0	3,027 [5]	270 8.9	3,297 [5]		5.2
University of Toledo	2,358 [7]	93 3.9	2,451 [7]	752 30.7	2,973 [5]	156 5.2	3,129 [5]	147 4.7	3,276 [5]		4.2
Wright State University	2,622 [5]	105 4.0	2,727 [5]	270 9.9	2,997 [5]	201 6.7	3,198 [5]	168 5.3	3,366 [5]		6.5
Youngstown State University	2,190 [16]	150 6.8	2,340 [9]	120 5.1	2,460 [16]	90 3.7	2,550 [16]	150 5.9	2,700 [16]		5.4
Cleveland State University	810 [12]	--	810 [12]	1,690 --	2,490 [9]	405 16.3	2,895 [7]	171 5.9	3,066 [7]		11.1

**RESIDENCE AND DINING HALLS**  
**NET YIELD - AUTUMN QUARTER OPENING**  
**TOTAL CONTRACTS OFFERED/RETURNED**

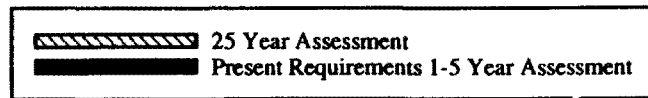
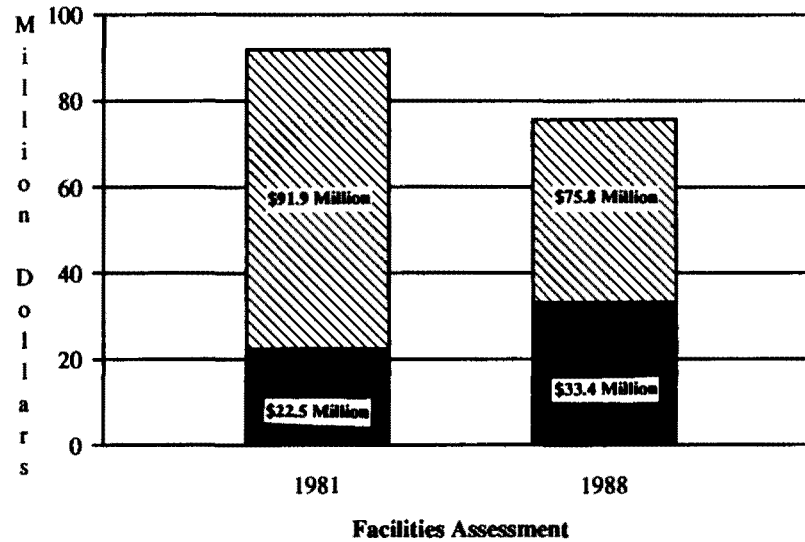
	<u>82-83</u>	<u>83-84</u>	<u>84-85</u>	<u>85-86</u>	<u>86-87</u>	<u>87-88</u>	<u>88-89</u>	<u>line</u>
<u>Renewals</u>								
Total offered	9558	9704	9408	9124	9012	8750	8684	1
Net for assignment	3993	4095	3771	3793	3728	3474	3119	2
Net yield %	41.8%	42.2%	39.8%	41.6%	41.4%	39.7%	35.9%	3
 <u>NFQF</u>								
Paid Acceptance Fees	8512	8415	8100	8327	8536	7665	8762	4
Net for assignment	5396	5232	5056	5254	5484	5079	5791	5
Net yield %	63.4%	62.2%	62.4%	63.1%	64.2%	66.3%	66.1%	6
 <u>Transfers &amp; Others</u>								
Total offered	1872	1852	1701	1539	1461	1792	1609	7
Net for assignment	972	990	1020	720	634	932	912	8
Net yield %	51.9%	53.4%	60.0%	46.8%	43.4%	52.0%	56.7%	9

**RESIDENCE AND DINING HALLS  
SEVEN YEAR MEAL PLAN, MEALS ONLY, AND ROOM ONLY TRENDS**

	<u>FY 1983</u>	<u>FY 1984</u>	<u>FY 1985</u>	<u>FY 1986</u>	<u>FY 1987</u>	<u>FY 1988</u>	<u>FY 1989</u>
<u>Autumn Quarter</u>							
MEALS CONTRACTS	9991	10217	9004	9638	9436	8963	9905
Meals Only - Off Campus	306	306	246	249	229	284	429
Room Only	591	580	620	626	636	580	499
<u>Winter Quarter</u>							
MEALS CONTRACTS	9962	10133	9557	9529	8963	8865	9859
Meals Only - Off Campus	277	306	228	197	197	263	371
Room Only	733	483	560	586	583	554	491
<u>Spring Quarter</u>							
MEALS CONTRACTS	9666	9731	9097	9074	8637	8793	--
Meals Only - Off Campus	265	227	171	162	162	239	--
Room Only	573	601	546	569	596	571	--



**RESIDENCE AND DINING HALLS  
FACILITIES REPAIR  
COST PROJECTIONS**



**RESIDENCE AND DINING HALLS  
MAJOR CAPITAL PROJECTS  
FISCAL YEARS 1984-89**

<b>Stadium Renovation</b>	<b>\$ 8,232,531</b>
<b>Buckeye Village</b>	<b>7,835,360</b>
<b>Jones Tower</b>	<b>1,991,258</b>
<b>Morrill and Lincoln Towers</b>	<b>1,046,159</b>
<b>North Commons</b>	<b>479,139</b>
<b>Raney Commons</b>	<b>469,407</b>
<b>ATI Residence Hall Purchase and Improvements</b>	<b>1,400,000</b>
<b>Stone Laboratory</b>	<b>200,000</b>
<b>Misc. Projects -     roofs, HVAC, windows, elevators,     modifications for physically     challenged</b>	<b><u>9,169,031</u></b>
	<b><u>\$30,822,885</u></b>

**RESIDENCE AND DINING HALLS STAFFING  
8 YEAR COMPARISON OF REGULAR AND STUDENT STAFF FTE**

	<b><u>Total</u></b>	<b><u>Staff</u></b>	<b><u>Student</u></b>
1981	900.0	626.5	273.5
1982	870.6	599.9	270.7
1983	872.3	592.5	279.8
1984	846.1	569.8	276.3
1985	811.8	564.7	247.1
1986	844.4	564.5	279.9
1987	877.6	575.9	301.7
1988	822.0	549.2	272.8

# **RESIDENCE AND DINING HALLS** **6 YEAR COMPARISON OF AFFIRMATIVE ACTION DATA**

## **Executive, Administrative, Managerial (01)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	9	44.5% (4)	0.0% (0)
1984	12	50.0% (6)	8.3% (1)
1985	16	50.0% (8)	25.0% (4)
1986	19	57.6% (10)	31.6% (6)
1987	19	52.6% (10)	26.3% (5)
1988	21	52.4% (11)	23.9% (5)

## **Technical and Paraprofessional (05)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	3	33.3% (1)	0.0% (0)
1984	2	50.0% (1)	0.0% (0)
1985	2	50.0% (1)	0.0% (0)
1986	0	0.0% (0)	0.0% (0)
1987	0	0.0% (0)	0.0% (0)
1988	0	0.0% (0)	0.0% (0)

## **Professional Non-Faculty (03)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	85	49.4% (42)	14.1% (12)
1984	79	58.2% (46)	16.5% (13)
1985	81	55.6% (45)	13.6% (11)
1986	83	56.6% (47)	19.3% (16)
1987	86	58.1% (50)	15.1% (13)
1988	80	53.8% (43)	11.3% (9)

## **Skilled Crafts (06)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	14	0.0% (0)	14.2% (2)
1984	13	0.0% (0)	15.3% (2)
1985	12	0.0% (0)	16.6% (2)
1986	11	0.0% (0)	27.2% (3)
1987	10	0.0% (0)	20.0% (2)
1988	12	0.0% (0)	16.6% (2)

## **Clerical and Secretarial (04)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	51	90.2% (46)	49.0% (25)
1984	50	90.0% (45)	50.0% (25)
1985	50	86.0% (43)	42.0% (21)
1986	52	88.5% (46)	40.4% (21)
1987	49	83.7% (41)	38.8% (19)
1988	44	84.1% (37)	43.2% (19)

## **Service/Maintenance (07)**

	<u>Total</u>	<u>Female</u>	<u>Minority</u>
1983	455	55.3% (252)	69.4% (316)
1984	443	53.7% (238)	69.3% (307)
1985	427	52.4% (224)	69.5% (297)
1986	449	48.1% (216)	71.9% (323)
1987	441	48.0% (212)	71.4% (315)
1988	438	48.6% (213)	70.7% (310)

APPENDIX XX

THE OHIO STATE UNIVERSITY  
COLLEGE OF AGRICULTURE - DEVELOPMENT UPDATE  
January 1989

Presented to the Agricultural Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 694)

The Ohio State University  
College of Agriculture  
Development Update  
January 1989

Historical

Since the beginning of The Ohio State University College of Agriculture's Campaign in May of 1985, many factors have undergone change, and they continue to change as new leadership exerts its diverse interest and new priorities upon the many facets of the College of Agriculture's programs.

Since planning for the Campaign began in 1983, the College of Agriculture has experienced a leadership change -- from Max Lennon to Acting Dean Francille Firebaugh and now Fred Hutchinson. Every department chair has changed in the past four years. Also, the development officer, Clancy Biegler, replaced Bob Groves just two years ago.

Donor Sources

Each year our dollar goal has been exceeded and substantial progress has been made in developing a solid growing donor base, an important long-range ingredient. The alumni donor base has grown from 3,000 to 4,500. Corporate and foundation donors have increased from 390 to 515 and other organizations and associations have increased from 300 to 370. Substantial activity in the wills and bequests area has uncovered a number of wills. Efforts continue to convert wills to irrevocable trusts through donor cultivation and education.

Types of Gifts

During the Campaign we have received cash and securities in the amount of \$12.6 million, gifts-in-kind (i.e., equipment, animals, supplies, etc.) counted at \$2.3 million and irrevocable deferred gifts of over \$601,000. Expectancies or pledges amounting to \$1.7 million brings our total to over \$17.2 million. Private gifts from Ohio State Research Foundation sources totaling over \$1 million, added to the above gives us a total of \$18.2 million exceeding our \$18 million goal.

College of Agriculture Priorities

Changes in executive leadership, departmental chairs, the changing agricultural picture economically, and environmentally, all have had effects upon the interests and needs of faculty, researchers and donors. Much of our funding efforts either have been or are currently focused upon the following programs or chairs. Other funding efforts and excellent results have been directed toward departmental needs for equipment, supplies and program support. Thousands of dollars, mostly from organizations representing agri-industries who depend upon the College of Agriculture for research,

employee recruitment, and training have been given for faculty, researchers and advisors in laboratories and extension offices statewide.

The following is a list of our major chairs and endowments and their current status. Each will make a large difference to a department. Together, they will make a remarkable change to the College of Agriculture:

1. **Chair in Agricultural Economics** (original goal \$1.25 million)
  - (a) **The Anderson Chair in Agriculture Marketing/Trade Policy**  
currently funded at \$980,000
  - (b) **The Farm Income Enhancement Program**  
goal: \$2 million endowment  
      \$1 million operating and interest growth  
      \$3 million Total  
  
Total pledged and received: \$1,605,141  
USDA funds received:       126,000  
                              \$1,731,141
2. **The Food Industries Center** (original goal \$3.2 million, to be revised). Change to departmental status and expansion of current facility requires new research efforts already underway with private industry as well as possible state and federal assistance.
3. **Chair in Food Industries Center** (original goal, \$1.25 million)
  - (a) **The Haas Chair**, total raised, \$980,000
  - (b) **The Dairy Foods Chair** (goal, \$1.25 million)  
Total received \$133,733  
Total pledged 788,210  
TOTAL \$921,943
4. **Chair in Turfgrass Research** (goal, \$1.25 million)  
This program emerged as a priority for the Turfgrass Industry as chemical application problems require research, particularly with current drought conditions. We have a verbal commitment for the entire \$1.25 million with all indications that it will be consummated by the end of March. Donor anonymous at this time.
5. **Chair in Biotechnology (Plant)** (goal, \$1.25 million)  
55% Microbiology in the College of Biological Science  
45% Plant Pathology in the College of Agriculture  
Major donor source is the DNAP Corporation, funded with expected growth stock in the amount of approximately \$300,000.

6. **Endowment for Undergraduate Scholarships and Graduate Fellowships** (original goal, \$2 million)  
Received bequest of \$1.2 million.  
We have received a number of \$15-25,000 endowed scholarships that have not been collectively credited to this fund. In addition, we are currently underwriting efforts to generate major funding for OARDC graduate fellowships.
7. **The Chadwick Arboretum** (tentative goal, \$3 million)  
Board and Steering Committee is in the advanced funding phase under the direction of a part-time development consultant.
8. **The Ohio 4-H Campaign for Excellence** (goal, \$25 million)  
See attached 4-H campaign brochure. John Mount is the Steering Committee Chairman. The campaign is nearing pre-campaign major donor solicitation.



APPENDIX XXI

THE OHIO STATE UNIVERSITY  
PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 695)

## **THE OHIO STATE UNIVERSITY PCB ELIMINATION AND ELECTRICAL SYSTEM UPGRADE**

This proposal discusses a \$22.9 million bond issue which will enable The Ohio State University to comply with Federally mandated regulations requiring the proper disposal of all cooling oils containing Polychlorinated Biphenyl (PCB) materials. PCB cooling oils are used in most of the electrical distribution equipment installed before the early 1970's at The Ohio State University.

Proceeds from this bond issue will enable the University to:

- o Replace 202 distribution class PCB building transformers and 271 power capacitors with environmentally safe units on all campuses. Removal and replacement of the transformers and capacitors will cost \$9.7 million or approximately 49% of the project cost.
- o Certain electrical distribution system improvements related to, but not directly involving PCB fluids, must be undertaken in order to accommodate the new electrical equipment. This portion of the work is estimated to cost \$7.3 million or approximately 37% of the project cost
- o Upgrade or install new major high voltage circuits from the Buckeye Electrical Substation to redistribute campus electrical loads and allow for future system-wide growth. The system upgrade work will cost \$3.0 million or approximately 14% of the project cost.

The project will produce two desirable outcomes. The first is that it will permit the University to remain in compliance with Federal environmental regulations by eliminating the use of PCB materials on the Columbus and regional campuses. The second will be to correct certain electrical distribution deficiencies on the Columbus campus, including undersized equipment and cabling, system age, changes in electrical codes and standards, and general electrical system reliability.

### **University Electrical Distribution System**

The Ohio State University owns and operates an underground electrical power distribution system on the Columbus campus which serves approximately 92% of its buildings. Buildings which are not on the University's system (approximately 8%) receive electrical power directly from the utility company.

Electrical energy is fed into the University's distribution system at two locations. The main service point is the Buckeye Substation located on Cannon Drive directly west of Parks Hall. The utility company delivers power at 138,000 volts to this location, transforms it to 13,800 volts through two utility-owned transformers and delivers it to a common electrical bus system for utilization. In FY 1987-88 the University purchased 250,257 megawatt-hours, or approximately 87.7% of its power through this point.

The University has purchased electrical power at the Buckeye Substation since April 29, 1974, under a 25-year contract dated September 22, 1972, as amended October 31, 1979, with the Columbus and Southern Ohio Electric Company (now Columbus Southern Power Company). Provisions are made in the contract which allow for 5-year successive service periods after the

initial 25 years if desirable to both parties. There are also provisions for cancelling the contract while in force. However, neither party has indicated a desire to do so during its first seventeen years of existence.

The electrical rate structure has remained static since the October 31, 1979, amendment. The only changes in the unit price of power has been in the fuel cost adjustment portion of the bill. Fuel cost adjustments are standard provisions in utility contracts which are used by utility companies for passing on basic fuel cost changes that are beyond the company's control. Fuel cost adjustments are usually applicable to all customers regardless of specific contracts or rate classes. The fuel cost adjustment charges have decreased slightly over the past five years and indications are that this component of the unit cost will continue to remain stable for some time barring any unforeseen curtailment of basic fuel supplies.

The McCracken Heating Plant is the other power source for the Columbus campus. Initially this facility served as both the electrical and heating plant for the University community. Beginning sometime during the early to mid 1960's the electrical demands on campus dictated the need for an additional source of power. The role of the McCracken facility naturally shifted from a primary to a standby electrical production center for the campus as electrical loads grew. In FY 1987-88 the McCracken Power Plant produced only 4.7% of the power used on campus. Electricity is produced and distributed at a 4,160 volt level from this location.

Recently a 3,125 KW, 13,800 Volt, back-pressure steam turbine-generator was installed in the McCracken facility under the Coal-Fired Boiler project. The purpose of installing the turbine-generator was that, because of the back-pressure configuration and other operating conditions, electrical power can be produced at less cost than purchasing it through the Buckeye Substation. Under the present costs of fuel and purchased electricity, the University will recover its project cost in approximately 4.5 years in fuel and purchased electricity savings.

Electrical power is distributed to all buildings at either the 13,800 volt (Buckeye) or 4,160/13,800 volt (McCracken) level. Individual building transformers receive the incoming power and reduce it to either a 120/208 volt (normally electrical outlets and lights) or a 277/480 volt (normally large pump or fan motors) service level for use within the building. Many of the building transformers installed before the early 1970's contain PCB cooling fluids.

All of the day-to-day operation/maintenance work and capital repairs/improvements of the high and low voltage systems are the responsibility of the Physical Facilities Department. Every effort has been made to identify all known PCB installations and include them in the \$20.0 million project scope of work. In the event that additional PCB materials are identified during the course of this project, every effort will be made to include them in this work.

During FY 1987-88 the cost of purchasing power through the Buckeye Substation was 37.70 Mills (1 Mill = \$0.001) per KWH. The annual cost of operating and maintaining the University's distribution system during the same period increased the overall cost of the power by 2.65 Mills/KWH producing an aggregate distributed cost of 40.35 Mills/KWH.

During the same period the cost of buying electrical power from the utility company at each building under the "small user" Commercial and Industrial GS-1, GS-2 and GS-3 rates was 55.23 Mills/KWH. And this has been limited to only those buildings on the Columbus campus which are isolated from the University's distribution system. If it were the case that all of The Ohio State University Buildings were to pay the small user rate the University's electrical bill during FY 1987-88 would be roughly \$4.0 million higher. Clearly, the University benefits from the use of the Buckeye Substation and its associated electrical contract.

## PCB Background

Polychlorinated Biphenyl (PCB) compounds were first developed in 1929, as a fire retardant additive for cooling fluids used in transformers, capacitors, switches, and other electrical equipment. PCB's are inherently stable compounds which have extremely high ignition points and will not decompose under ordinary conditions. At the time they were considered by most as the "perfect" answer to a fire hazard problem in the electrical power industry.

In the early 1970's, research indicated that a combination of the compound's inherent stability and its heavily chlorinated makeup caused serious and potentially devastating side effects in animals and humans. In addition, there have been some significant PCB related accidents which have resulted in costly clean-up operations. Perhaps the most widely known accident involves the State Office Building in Binghamton, New York. In 1981, an electrical fire involving PCB transformers contaminated the 20-story office building, rendering it unfit for occupation. Since then the State of New York has spent approximately \$33 million for its decontamination. It is reported that this process should be completed within one to two years.

In 1976, Congress ordered that all electrical apparatus containing PCB materials be refilled with a non-toxic cooling fluid. Since then the U.S. Environmental Protection Agency has promulgated a series of regulations to meet this mandate.

The latest regulation was issued on July 17, 1985. This regulation, known as the EPA Fire Rule Amendment, states that the use of PCB filled transformers in buildings which have food service outlets or house foodstuffs must undergo extensive and costly modifications or be eliminated by October 1, 1990. The USEPA generally considers any of the following as having food present in a building:

- o A cafeteria
- o A canteen
- o A vending machine area
- o A storage area for foodstuffs
- o Personal carry-in foodstuffs

Clearly, all buildings owned by The Ohio State University would satisfy one or more of the above conditions.

## COMPLIANCE OPTIONS

Presently, there are only two viable options available for compliance with the Fire Rule Amendment regulation. These options include:

- o Retrofit each transformer with non-toxic cooling fluids.
- o Replace all transformers with new non-toxic units.

### Retrofit

One method of retrofitting involves a fairly lengthy process of gradually removing the PCB coolant, filtering out the unwanted PCB material, and returning the coolant to the unit. Additional non-PCB coolant is added to restore the original amount of liquid.

After the filtering process, coolant samples are drawn for laboratory analysis. If the analysis proves the PCB levels to be less than 50 PPM, the unit would be considered safe for continued use. If the analysis was greater than 50 PPM, the filtering process would be completed once again.

A second method of refilling replaces the entire amount of PCB material with new, non-toxic material. This option is selected when the cooling fluid is almost pure PCB material. The transformer has to be removed from service while this is being done. Normally several fill and drain operations are required in order to flush enough of the PCB material from the unit so that it can meet the 50 PPM standard.

There are at least three drawbacks to the refill option. The first is that it is quite difficult to keep a refilled unit below some target PCB level. Power transformers consist of a fairly large ferromagnetic core. The core usually is constructed from a series of fairly thin (1/16" thick) iron sheets which are piled on top of one another.

At least two separate copper coils are tightly wound around the ferromagnetic core to form the primary and secondary voltage circuits. The remaining materials in a transformer are basically insulating and supporting materials. These materials are usually insulating paper and maple or oak braces. The entire assembly is then placed in an oil bath container which serves to dissipate unwanted heat buildup during the unit's operation. The container also forms a weather tight seal to protect the assembly from corrosion.

Over a period of time the PCB oil will seep into the inter-lamination spacings of the core. PCB oil will naturally be drawn into these paper and wooden materials as well. Both actions tend to temporarily "lock up" the oil so that it cannot be drained completely from the unit.

During a refill operation it is unlikely that these "hidden" pockets will be flushed out. The result is that even though a laboratory test may show compliance with the 50 PPM standard at the time the refill operation is completed, it may be the case that small amounts of oil temporarily locked into these pockets could leach out and re-contaminate the unit some months or even years later.

The second drawback to refill is that if the University never entirely rids itself of PCB materials and faces the possibility of needing further work to comply with future environmental standards. Most of the evidence to date shows that PCB's are probably dangerous at any level. If that is proven to be the case, it is likely that the present standard of 50 PPM could be cut to 5 PPM, or perhaps lower in the future. If The Ohio State University were to lay plans today for attaining 50 PPM and later finds the standard lowered, a second PCB removal project would have to be initiated. Refill costs can run as high as 60% to 70% of the replacement costs.

The third major drawback to the refill option is that it would not allow The Ohio State University to renew and/or reconfigure its electrical distribution system on the Columbus campus. Most of the PCB electrical components are at least twenty years old. Some date back to the early post World War II period.

The refilling option would not address the problems of age, electrical code compliance, and system reliability, which are becoming major factors in some areas of the Columbus campus. Wholesale replacement, on the other hand, would afford the opportunity to renew much of our electrical system and place The Ohio State University in a good position to support our educational and research activities over the next twenty or more years.

## Replacement

The replacement option is the only feasible alternative for addressing the PCB problem. As indicated earlier, this option is more costly than the retrofit option. However, the safety and environmental advantages of attaining PCB-free campuses coupled with the renewing and upgrading of the electrical distribution system at the Columbus campus far outweigh the cost differential implications.

One significant drawback with the replacement option is that each of the affected facilities must be without electrical power for some period of time while old transformers are being removed and the new ones installed. This period of time could be as short as one to two hours to as long as 48 hours depending upon the complexity of the installation.

In most cases, this outage will have only a minor impact on building operations as it will be scheduled during times of very low occupancy. However, there are some cases (continuous research, hospital occupancy, etc.) where lengthy power interruptions will not be tolerated very well. Significant efforts will be made to minimize the impact of this project on those activities through a program of information dissemination throughout all phases of the work and appropriate scheduling of the construction work based on consultation with each of the groups within the targeted buildings. A portion of the proposed bond proceeds have been earmarked for incidental work such as temporary electrical power units, relocation of functions and so forth.

Replacement units will be entirely free of PCB materials. This action precludes any future need for additional PCB programs should the Federal government decide that lower PCB levels are warranted. The replacement option also allows the design engineers an opportunity to review transformer and distribution cabling sizes so that they can be selected to match the present and future electrical needs more closely.

## COMPLIANCE AND ENFORCEMENT

The Ohio State University must complete its PCB work no later than October 1, 1990.

Failure to comply with the Federal Fire Rule Amendment order could result in serious civil and/or criminal penalties. Under Section 16 of the Toxic Substance Control Act (TSCA) penalties for non-compliance with the PCB requirements could result in up to \$25,000 per day for Civil Violations. TSCA also has provisions for imprisonment of up to one year if a Criminal Violation can be proven.

## ECONOMIC ANALYSIS

The PCB Elimination and Electrical System Upgrade Project is a \$20.0 million project which covers work at the Columbus and regional campuses. It is proposed that this project be bid as a "turn key" project which would include detailed design engineering, selection of equipment, and new construction.

Generally there is little reduction in operating costs by replacing older electrical equipment with new equipment. Electrical transformation efficiencies will tend to improve somewhat, but the improvement which produces lower operating costs is not expected to be enough to offset the project costs within a reasonable period of time.

All operating units of The Ohio State University including the general fund will experience an

increase in annual expenditures for the debt service of a bond issue in order to comply with the federally mandated PCB regulations and make the proposed upgrades in service.

## Financing

As stated earlier, approximately 92% of The Ohio State University's electrical power on the Columbus campus flows through the 138 KV Buckeye Electrical Substation located near Parks Hall or is generated locally in the McCracken Power Plant. The balance of the power is purchased through individual meters at building entrances in much the same way as a homeowner purchases his or her power.

Electrical power which is purchased by The Ohio State University is regulated by Public Utilities Commission of Ohio. In general, it is cheaper for the University to buy electrical power under an approved large user contract through a single point rather than in smaller quantities at multiple points.

As indicated earlier, the aggregate unit cost for electrical power purchased at the Buckeye Substation and distributed over University-owned facilities is 40.35 Mills/KWH. The unit cost for electrical power purchased at the outlying facilities under the "small user" Commercial and Industrial GS-1, GS-2 and GS-3 rates is 55.23 Mills/KWH.

The Ohio State University is proposing to issue fixed rate bonds to fund this project. At the current rate of interest, the annual debt service for a 15 year, 7.1068% average annual interest rate bond would be approximately \$2,467,000.

Under that scenario, fixed rate bonds would be issued with serial maturities of from 1 to 15 years with the average life being approximately 9.1 years. The total amount of the bonds to be issued would be \$22,918,494. Of that amount, \$20,000,000 would be deposited to the construction fund and used to fund the project, \$2,466,798 would be deposited in a Bond Debt Service Reserve Account to insure the annual debt service requirements are met. The remaining \$451,696 represents the estimated associated Discount, Legal and Issuing expenses. Total interest expenses would be \$14,869,526 for a total bond cost of \$35,321,222.

As interest rates fluctuate, the above scenario would be impacted. For example, a 25-50 basis point increase in interest rates would equate to an additional cost of \$1.2 million to \$2.3 million over the life of the bonds.

The Ohio State University is further proposing a program of retiring the bond issue by placing a self-imposed surcharge on the Buckeye Substation unit cost. The surcharge will be phased in over three years. It will effectively represent a 26% increase in the cost of electrical power on the Columbus campus. This increase translates into an equivalent uniform unit cost of 47 to 48 Mills/KWH for electrical power, which is clearly less than the 55.23 Mills/KWH price available to small users.

Although this is a substantial increase, the aggregate (base charge plus surcharge) unit cost is not expected to increase to the point where The Ohio State University would be better served through individual utility company meters located in each facility. On the contrary, the University could continue to enjoy the financial benefits of owning its own power distribution system even with an additional surcharge. An added benefit upon project completion is that a considerable number of transformers (202 out of 270 installations) within the system will be new and more reliable.

A unit cost surcharge based on the electrical usage has been selected for three reasons. First, a consumption-based surcharge more closely resembles a capital recovery fund normally used by regulated utility companies for repairs and improvements. Secondly, the uniform or across-the-board rate would be easy to administer in the University's business operations. The third reason is that the PCB elimination problem is a University-wide problem and, as such, should be treated in that manner.



APPENDIX XXII

THE OHIO STATE UNIVERSITY  
ATHLETIC DEPARTMENT

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 696)

THE STATE UNIVERSITY ATHLETIC DEPARTMENT  
Approved Budget - Expenditures  
1988-1989

	A & P	Classi-	Specials	Wages	Benefits	Operations	Equip-	Capital/	Overhead	Approved
	Salaries	fied					ment	Contingy	Assessment	1988-89
316500 Games & Sports	\$ 258,300.	\$ 64,000.	\$276,600.	\$	\$ 81,500.	\$	\$	\$	\$	\$ 680,400.
316501 Other Sports-Men	586,700.				119,800.					706,500.
316502 Football	567,200.	57,300.		81,900.	121,800.	2,172,500.	10,000.			3,010,700.
316503 Basketball-Men	168,700.	33,100.		30,500.	38,300.	558,200.	1,400.			830,200.
316504 Baseball-Men						155,230.	1,000.			156,230.
316505 Fencing-Men				500.		22,230.				22,730.
316506 Golf-Men						67,950.				67,950.
316507 Gymnastics-Men				1,500.		114,780.	1,050.			117,330.
316508 Ice Hockey-Men				6,300.		257,800.				264,100.
316509 Lacrosse-Men						27,200.				27,200.
316510 Pistol-Men						14,225.				14,225.
316511 Rifle-Men						12,190.				12,190.
316512 Soccer-Men				2,000.		29,380.				31,380.
316513 Swimming/Diving-Men				5,100.		138,559.				143,659.
316514 Tennis-Men						80,915.	1,200.			82,115.
316515 Track-Men				1,400.		187,365.				188,765.
316516 Volleyball-Men				2,400.		37,210.				39,610.
316517 Wrestling-Men				1,800.		155,210.				157,010.
316520 Athletic Awards						58,500.				58,500.
316521 Medical Services						342,500.				342,500.
316526 Other Sports-Women	479,100.	23,100.			95,200.					597,400.
316527 Basketball-Women				7,200.		282,580.				289,780.
316528 Softball-Women				500.		148,085.				148,585.
316529 Fencing-Women				675.		37,260.				37,935.
316530 Golf-Women						70,821.				70,821.
316531 Gymnastics-Women				900.		119,345.				120,245.
316532 Field Hockey-Women				100.		139,360.				139,460.
316533 Swimming/Diving-Women				5,400.		154,990.				160,390.
316534 Synch/Swimming-Women				5,000.		52,295.				57,295.
316535 Tennis-Women						91,406.	200.			91,606.
316536 Track-Women				1,600.		176,340.				177,940.
316537 Volleyball-Women				2,950.		172,405.				175,355.
316543 Cheerleaders				300.		17,100.				17,400.
316544 Equipment Care				81,300.	8,200.	81,000.	4,000.			174,500.
316545 Training				97,000.		123,100.	2,700.			222,800.
316546 Tutoring				42,300.	600.	5,700.				48,600.
316547 Parking				165,000.	2,000.	37,700.				204,700.
316548 Programs				3,000.		73,505.				76,505.
316549 Grant-in-Aid						(2,305,800.)				(2,305,800.)
	\$2,060,000.	\$177,500.	\$276,600.	\$546,625.	\$467,400.	\$3,906,136.	\$21,550.			\$7,455,811.

## OSU ATHLETIC DEPARTMENT - Approved Budget - 1988-89 - EXPENDITURES - (Concluded)

	A & P	Classi-	Special	Wages	Benefits	Operating	Equipment	Capital/ Contingency	Overhead Assessment	Approved 1988-89
	Salaries	fied								
316550 Administration-Gen'l	\$ 771,750.	\$588,000.	\$	\$ 84,000.	\$317,310.	\$ 712,950.	\$100,000.	\$2,504,000.	\$ 981,520.	\$ 6,059,530.
316551 Publicity				33,600.	1,600.	239,200.	1,000.			275,400.
316552 Marketing & Promotions				3,000.		141,300.				144,300.
316553 Athletic Ticket Office				40,150.	4,000.	152,200.	3,000.			199,350.
316554 Band				12,200.		154,200.	9,300.			175,700.
316556 Clinic						60,000.				60,000.
316557 Buckeye Sports Camp			106,000.	22,600.	15,000.	281,400.				425,000.
316558 Sport Championships				3,200.		118,400.				121,600.
Sub total	\$ 771,750.	\$588,000.	\$106,000.	\$ 198,750.	\$337,910.	\$1,859,650.	\$113,300.	\$2,504,000.	\$ 981,520.	\$ 7,460,880.
316560 Athletic Plant Maint.	\$ 45,700.	\$	\$	\$ 501,850.	\$ 77,000.	\$ 104,100.	\$ 63,000.	\$	\$ 705,120.	\$ 1,496,770.
316561 Stadium Maintenance				15,000.	1,000.	198,050.	5,000.			219,050.
316562 Arena Maintenance						76,500.	5,000.			81,500.
316563 Field House Maint.						24,700.	5,000.			29,700.
316564 North Facility Maint.						223,075.	124,595.			347,670.
316565 Tennis Court Maint.						11,150.				11,150.
Sub total	\$ 45,700.			\$ 516,850.	\$ 78,000.	\$ 637,575.	\$202,595.		\$ 705,120.	\$ 2,185,840.
316570 Golf Course	\$ 32,000.	\$ 45,000.	\$	\$	\$ 18,000.	\$	\$	\$	\$	\$ 95,000.
316571 Golf Course Operating				205,000.	25,300.	257,700.	45,000.			533,000.
316572 Golf Course Pro Shop		44,000.		77,500.	13,300.	310,000.	5,000.			449,800.
316573 Golf Course Restaurant	30,000.			176,400.	35,000.	224,000.	3,000.			468,400.
Sub total	\$ 62,000.	\$ 89,000.	\$	\$ 458,900.	\$ 91,600.	\$ 791,700.	\$ 53,000.	\$	\$	\$ 1,546,200.
316575 Ice Rink	\$ 23,000.	\$ 30,000.	\$	\$ 87,000.	\$ 14,600.	\$ 176,200.	\$ 5,600.	\$	\$	\$ 336,400.
316591 Jesse Owens Classic	\$	\$	\$	\$	\$	\$ 58,000.	\$ 2,000.	\$	\$	\$ 60,000.
TOTALS	\$2,962,450.	\$884,500.	\$382,600.	\$1,808,125.	\$989,510.	\$7,429,261.	\$398,045.	\$2,504,000.	\$1,686,640.	\$19,045,131.

\*\$509,000.00 St. John/Stadium Scoreboards, \$1,195,000.00 Multi-Sports Complex, \$400,000.00 Cost Containment, and \$400,000.00 Small Project Financing.

## THE OHIO STATE UNIVERSITY

## ATHLETIC DEPARTMENT

Approved Budget 1988-1989

	<u>INCOME</u>	
<u>OTHER SPORTS - MEN (316501)</u>	<u>Approved 1987-88</u>	<u>Approved 1988-89</u>
052 Tickets - Individ.	\$ 12,000.00	\$ 12,000.00
061 Concessions	4,000.00	4,000.00
062 Guarantees	5,000.00	5,000.00
067 Miscellaneous	<u>15,000.00</u>	<u>15,000.00</u>
	\$ 36,000.00	\$ 36,000.00
 <u>FOOTBALL (316502)</u>		
050 Season Tickets - S&F	\$ 1,934,400.00	\$ 1,934,400.00
051 Season Tickets - G.P.	3,870,605.00	3,870,605.00
052 Tickets - Individ.	1,229,609.00	1,229,609.00
054 Service Charge	10,000.00	15,000.00
055 Postage & Handling	45,000.00	45,000.00
056 Television	750,000.00	800,000.00
057 Broadcasting	1,134,000.00	602,225.00
061 Concessions	370,000.00	425,000.00
062 Guarantees	1,475,000.00	1,200,000.00
063 Guarantee-Visitor	(2,300,000.00)	(2,300,000.00)
067 Miscellaneous	<u>4,000.00</u>	<u>4,000.00</u>
	\$ 8,522,614.00	\$ 7,825,839.00
 <u>BASKETBALL (316503)</u>		
050 Season Tickets - S&F	\$ 253,810.00	\$ 264,000.00
051 Season Tickets - G.P.	670,734.00	715,400.00
052 Tickets - Individ.	358,000.00	358,000.00
054 Service Charge	4,000.00	4,000.00
055 Postage & Handling	6,500.00	6,500.00
056 Television	700,000.00	750,000.00
057 Broadcasting	378,000.00	200,750.00
061 Concessions	70,000.00	90,000.00
062 Guarantees	10,000.00	20,000.00
064 Tournament Income Shares	150,000.00	100,000.00
067 Miscellaneous	<u>7,000.00</u>	<u>10,000.00</u>
	\$ 2,608,044.00	\$ 2,518,650.00

OSU ATHLETIC DEPARTMENT - Approved Budget 1988-1989 - INCOME - Page 2

	Approved 1987-88	Approved 1988-89
<u>ICE HOCKEY (316508)</u>		
050 Season Tickets - S&F	\$ 6,000.00	\$ 6,000.00
051 Season Tickets - G.P.	2,500.00	2,500.00
052 Tickets - Indiv.	29,500.00	29,500.00
062 Guarantees	10,000.00	10,000.00
067 Miscellaneous	<u>2,000.00</u>	<u>2,000.00</u>
	\$ 50,000.00	\$ 50,000.00
<u>OTHER SPORTS - WOMEN (316526)</u>		
050 Season Tickets - S&F	\$ 3,000.00	\$ 5,000.00
051 Season Tickets - G.P.	9,000.00	20,000.00
052 Tickets - Indiv.	58,000.00	58,000.00
061 Concessions	15,000.00	20,000.00
067 Miscellaneous	<u>3,000.00</u>	<u>3,000.00</u>
	\$ 88,000.00	\$ 106,000.00
<u>PARKING (316547)</u>		
051 Season Tickets G.P.	\$ 110,000.00	\$ 110,000.00
052 Tickets - Indiv.	160,000.00	180,000.00
067 Settlement-Traf/Park	<u>(70,000.00)</u>	<u>(70,000.00)</u>
	\$ 200,000.00	\$ 220,000.00
<u>PROGRAMS (316548)</u>		
058 Program Sales	<u>\$ 135,000.00</u>	<u>\$ 135,000.00</u>
	\$ 135,000.00	\$ 135,000.00

OSL ATHLETIC DEPARTMENT - Approved Budget - Income - 8-89 - Page 3

	Approved 1987-88	Approved 1988-89
<u>ADMINISTRATION GENERAL (316550)</u>		
032 Interest Income	\$ 200,000.00	\$ 400,000.00
061 Concessions	96,000.00	100,000.00
065 Facility Rental	50,000.00	140,000.00
067 Miscellaneous	5,000.00	100,000.00
068 Scoreboard Advertising	800,000.00	1,135,000.00
	\$ 1,151,000.00	\$ 1,875,000.00
<u>MARKETING &amp; PROMOTIONS (316552)</u>		
067 Miscellaneous	\$ 125,000.00	\$ 200,000.00
	\$ 125,000.00	\$ 200,000.00
<u>CLINICS (316556)</u>		
073 Fees & Memberships	\$ 50,000.00	\$ 75,000.00
	\$ 50,000.00	\$ 75,000.00
<u>BUCKEYE SPORTS CAMP (316557)</u>		
073 Fees & Memberships	\$ 355,000.00	\$ 650,000.00
	\$ 355,000.00	\$ 650,000.00
<u>SPORTS CHAMPIONSHIPS (316558)</u>		
052 Tickets - Individual	\$ 20,000.00	\$ 31,000.00
058 Programs	1,000.00	1,000.00
061 Concessions	3,000.00	3,000.00
067 Miscellaneous	33,000.00	37,000.00
073 Entry Fees	3,000.00	3,000.00
	\$ 60,000.00	\$ 75,000.00
<u>GOLF COURSE-OPER (316571)</u>		
073 Fees & Memberships	\$ 862,869.00	\$ 908,305.00
075 Alumni Pool	900.00	9,000.00
	\$ 863,769.00	\$ 917,305.00

	Approved 1987-88	Approved 1988-89
<u>GOLF COURSE-PRO SHOP (316572)</u>		
070 Merchandise Sales	\$ 141,177.00	\$ 145,412.00
071 Rentals	151,425.00	166,725.00
072 Instruction	9,265.00	15,000.00
074 Miscellaneous Sales	<u>67,000.00</u>	<u>75,000.00</u>
	\$ 368,867.00	\$ 402,137.00
<u>GOLF COURSE-RESTAURANT (316573)</u>		
074 Miscellaneous Sales	\$ 5,000.00	\$ 1,000.00
075 Food Sales	289,309.00	303,000.00
076 Beverage Sales	<u>80,000.00</u>	<u>96,000.00</u>
	\$ 374,309.00	\$ 400,000.00
<u>ICE RINK (316575)</u>		
052 Tickets	\$ 48,000.00	\$ 60,000.00
070 Merchandise Sales	102,000.00	110,000.00
071 Rentals	120,000.00	130,000.00
072 Instruction	20,000.00	25,000.00
074 Miscellaneous	<u>15,000.00</u>	<u>15,000.00</u>
	\$ 305,000.00	\$ 340,000.00
<u>BOWL GAMES (316590)</u>		
067 Miscellaneous	<u>\$ 700,000.00</u>	<u>\$ 750,000.00</u>
	\$ 700,000.00	\$ 750,000.00
<u>JESSE OWENS CLASSIC (316591)</u>		
052 Tickets	\$ 30,000.00	\$ 30,000.00
061 Concessions	5,000.00	5,000.00
067 Miscellaneous	<u>20,000.00</u>	<u>15,000.00</u>
	\$ 55,000.00	\$ 50,000.00
	<u>\$16,047,603.00</u>	<u>\$16,625,931.00</u>

**APPENDIX XXIII**

**UNIVERSITY'S FINANCIAL REPORT**

**Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 696)**



## INTRODUCTION

Good morning President Jennings, Chairman Kessler, and members of the Finance Committee and Board of Trustees. It is my pleasure to present to you the University's financial report for the fiscal year ended June 30, 1988. It is also a challenge to summarize the financial results of the activity of this complex billion dollar organization in this brief format. Therefore, my comments are limited to the highlights which appear within these financial statements.

## OVERVIEW

The 1988 financial statements reflect the results of investing in the future of the University, its faculty, staff and students.

The University's fiscal and human resources were called into action as we completed the Undergraduate Curriculum Review for the Arts and Sciences Colleges, implemented the University-wide Affirmative Action Plan, competed for more research dollars, funded the Early Retirement Incentive Program and weathered the weakened financial market.

While we achieved record growth in private support, minimal increases in State support forced undesirable tuition and fee increases upon our students.

To see the financial impact of these and other factors, we need to review two basic financial statements: The Balance Sheet and the Statement of Changes in Revenues, Expenditures and Fund Equities.

First we will look at a few key highlights of each financial statement. Then we'll look more closely at each fund group on both statements.

The Balance Sheet (page 2 of the Auditor's Report) reflects the financial results of all University activities. On an All-Funds basis:

Assets total \$1.9 billion. This represents a \$94.5 million, 5.3 percent, net increase over 1987. Major components of the increase include a \$119.5 million, 10.9 percent growth in the Investment in Plant, offset by a \$17.6 million, 3.3 percent decline in total Cash and Investments.

Liabilities total \$385.2 million, representing a \$33.2 million, 9.4 percent increase over 1987. The major increase was in Current Funds, where Accounts Payable and Accrued Liabilities increased \$27.2 Million, 23.2 percent.

Equity totals \$1.5 billion, a \$61.3 million, 4.3 percent increase over 1987. The major components of the increase include \$90.6 million in Plant Funds, and \$21.3 million in Endowment and Annuity Funds, offset by a \$52.0 million decrease in Current Funds.

Now, let's review the Statement of Revenues, Expenditures and Changes in

Fund Equities (page 3 of the Auditor's Report). On an All-Funds basis:

Revenues and other additions total \$1.2 billion. This represents an increase of \$17.6 million, or 1.5 percent over 1987.

Expenditures and Other Deductions total \$1.1 billion. This represents a \$41.9 million, or 4.0 percent increase over 1987.

To understand the details behind these revenues and expenditures, and their impact on the bottom-line, it is best to review each fund group separately.

#### CURRENT FUNDS

For the first time since fiscal year 1982, the cost of current operations exceeded current revenues. The University was forced to rely heavily on existing fund equity to meet current demands, resulting in a \$52.0 million decline in Current Funds Equity. Three major factors contributed to the decrease:

1. The Early Retirement Incentive Programs added \$20.8 million, 2.1 percent, to expenditures. Nearly 1,400 faculty and staff have participated in these programs to date, at a total one-time cost of approximately \$64.2 million. Compared to annual salary costs of \$50.1 million for these retirees, the plans appear to be cost-effective.
2. \$23.5 million allocated for debt service payments was transferred from Current Unrestricted Funds to Plant Funds Debt Service. This reflects an adjustment from prior years.
3. To help offset minimal increases in State support, colleges and administrative support areas were required to enhance resource management of all resources, and make use of contingency funds, for one-time needs.

Now, to review the other sources and uses of Current Funds:

There are three major fund groups within this category: Educational & General, Auxiliary Enterprises, and Hospitals.

Current Funds Revenues and Other Additions total \$989.3 million, an increase of \$51.4 million, 5.5 percent, over 1987. Major increases include:

Educational and General, which total \$705.1 million, an increase of \$48.4 million, 7.4 percent over 1987. This is comprised of:

Tuition, fees and other student charges, increased \$14.8 million, 11.4 percent;

Private support, increased \$14.9 million, 27.3 percent;

Investment income and realized gains, increased \$2.3 million, 10.2 percent.

Auxiliary Enterprises, where Revenues and Other Additions total \$82.2 million, increased \$3.5 million, 4.4 percent over 1987.

Hospitals, where Revenues and Other Additions total \$202.1 million, reflect a \$0.5 million, 0.2 percent decrease from 1987.

Current Funds, Expenditures and Other Deductions total \$979.6 million, an increase of \$62.9 million, 6.9 percent, over 1987. Major increases include:

Separately budgeted research expenditures, total \$120.5 million, increased \$21.3 million, 21.5 percent, resulting from increased competitiveness of faculty in attracting sponsored research support;

Scholarship and fellowship expenditures, total \$30.1 million, increased \$3.6 million, 13.7 percent, reflecting the increased use of financial aid due to the 10.9 percent resident tuition increase necessitated by low State support

Instruction and departmental research, total \$309.3 million, increased \$21.7 million, 7.5 percent;

Academic support totals \$66.6 million, increased \$3.5 million, 5.6 percent.

Auxiliary Enterprises, where Expenditures and Other Deductions total \$73.7 million, increased \$1.3 million, 1.9 percent over 1987.

Hospitals, where Expenditures and Other Deductions total \$198.6 million, and increased \$4.3 million, 2.2 percent.

The final component to impact Current Funds is Transfers. The Mandatory Transfers reflect funds set aside by the University and Auxiliary Enterprises for principal and interest payments on long-term debt.

The Non-mandatory Transfers include various transfers to fund capital improvements (\$17.9 million), as well as the \$23.5 million transfer mentioned earlier, to move funds allocated for debt service out of Current Funds and into debt service reserve accounts. The end result is a \$50.2 million decline in Current Funds Equity.

This concludes the discussion of Current Funds.

#### LOAN FUNDS

The balance sheet for Loan Funds remained essentially at 1987 levels, and includes \$38.1 million of loans outstanding, supported by \$41.8 million of U.S. government grants. The student loan default rate continues to be well below the national average. This reflects only a small part of the total financial aid provided to our students. During fiscal year 1988, 38,200 students received one or more forms of financial aid from Federal, State, University and local sources. The aid, totalling \$141.8 million includes student loans, grants, scholarships, and on-campus employment.

#### ENDOWMENT AND ANNUITY FUNDS

The market value of the endowment increased \$6.4 million. Total new additions to Endowments were \$19.4 million. Total return on the endowment was 0.4 percent as compared to -7.0 percent for the S&P 500. Gross Endowment income earned was \$12.6 million as compared to \$9.6 million in 1987.

#### PLANT FUNDS

Investment in Plant continues to grow. A net \$119.5 million was added to the book value, including: \$50.8 million in buildings; \$40.7 million in moveable equipment and furniture; \$4.6 million in library books; \$3.3 million in land and improvements; \$20.1 million in construction in progress. Plant-related debt of \$10.6 million was retired, leaving a balance of \$181.8 million.

#### CONCLUSION

Both Moody's and Standard & Poor's have taken the opportunity to review this financial information. To date, our bond ratings remain unchanged (AA-- and A1). We believe this is a recognition by the financial community of the continued overall strength of the University.

In terms of the current fiscal year, the Early Retirement Incentive Program, minimal increases in State support, the commitment to minimize tuition increases, and lean operating budgets for Auxiliary Enterprises and the Hospital continue. The financial results will be similar to this past year as the University continues to utilize Current Funds Equities to bridge the gap between Current Funds Revenues and Expenditures. The opportunity to reverse this trend lies in the passage, by the State, of a 1990-1991 biennial operating budget for higher education that recognizes the current and future cost of a quality education and educational system for Ohio.

APPENDIX XXIV

1988-89 SECOND QUARTER CURRENT  
FUNDS BUDGET REPORT

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 696)

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
2ND QUARTER REPORT

Summary of Proposed Resources  
(In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,260	860	.3%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,530	\$6,720	.7%
Regional Campuses	24,240	24,330	90	.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$990,160	\$996,970	\$6,810	.7%

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
2ND QUARTER REPORT

Summary of Proposed Uses  
(In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,590	\$0	.0%
Earnings Operations	322,400	323,250	850	.3%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,160	\$6,350	.7%
Regional Campuses	23,920	24,000	80	.3%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$989,840	\$996,270	\$6,430	.6%

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
2ND QUARTER REPORT

All Funds Resources Summary  
(in Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
State Appropriations	\$247.97	\$ .00	\$35.61	\$283.58	\$284.72
Student Fees	140.14	5.41	.00	145.55	144.55
Other Resources					
Federal Grants and Contracts	16.67	.00	79.50	96.17	94.03
Ohio Grants and Contracts	.41	.00	13.65	14.06	12.05
Local Grants and Contracts	.70	.00	11.86	12.56	12.44
Private Gifts and Grants	3.73	.00	50.00	53.73	51.00
Endowment Income	1.40	.00	7.70	9.10	9.10
Department and University Services	.41	27.02	.00	27.43	27.43
Auxiliary Sales & Charges	.02	81.33	.00	81.35	82.09
Hospital Sales & Services	.00	201.35	.00	201.35	201.35
Other Sources	9.50	8.15	.00	17.65	17.05
Total Other Resources	\$32.84	\$317.85	\$162.71	\$513.40	\$506.54
Total Central Campus	\$420.95	\$323.26	\$198.32	\$942.53	\$935.81
Regional Campuses					
State Appropriations	11.91	.00	.02	11.93	12.18
Student Fees	8.91	.25	.00	9.16	8.82
Other Resources	.54	.87	1.83	3.24	3.24
Total Regional Campuses	\$21.36	\$1.12	\$1.85	\$24.33	\$24.24
QARDC					
State Appropriations	.00	.00	19.54	19.54	19.54
Federal	.00	.00	6.65	6.65	6.65
All Other	.00	1.60	2.32	3.92	3.92
Total QARDC	\$ .00	\$1.60	\$28.51	\$30.11	\$30.11
Total University					
State Appropriations	259.88	.00	55.17	315.05	316.44
Student Fees	149.05	5.66	.00	154.71	153.37
Other Resources	33.38	320.32	173.51	527.21	520.35
Total University	\$442.31	\$325.98	\$228.68	\$996.97	\$990.16



THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
2ND QUARTER REPORT

All Funds Uses Summary  
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
Educational & General	\$419.65	\$32.43	\$184.13	\$636.21	\$630.71
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.45	.00	37.45	36.42
Intercollegiate Athletics	.00	17.10	3.60	20.70	20.70
Other Auxiliaries	.94	29.90	.00	30.84	31.02
Total Auxiliaries	\$ .94	\$84.45	\$3.60	\$88.99	\$88.14
University Hospitals	.00	206.37	10.59	216.96	216.96
Total Central Campus	\$420.59	\$323.25	\$198.32	\$942.16	\$935.81
Regional Campuses					
Agricultural Technical Institute	4.75	.78	.38	5.91	5.83
Lima Campus	4.48	.12	.43	5.03	5.03
Manassfield Campus	4.04	.08	.36	4.48	4.53
Marion Campus	3.60	.03	.42	4.05	3.88
Newark Campus	4.16	.12	.26	4.54	4.66
Total Regional Campuses	\$21.03	\$1.12	\$1.85	\$24.00	\$23.92
OARDC	.00	1.60	28.51	30.11	30.11
Total Uses	\$441.62	\$325.97	\$228.68	\$996.27	\$989.84

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
2ND QUARTER REPORT

Distribution of 1988-89 Resources  
Central Campus, Regional Campuses & OARDC  
(In Thousands of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$315,050	31.6%	\$259,880	58.8%
Federal Grants & Contracts	102,820	10.3%	16,670	3.8%
Other Government Sources	26,620	2.7%	1,110	.3%
Student Fees				
Instructional (1)	149,050	15.0%	149,050	33.7%
Non-Credit Instruction	5,660	.6%	0	.0%
Hospitals Sales / Services	201,350	20.2%	0	.0%
Other Sales / Services (2)	108,780	10.9%	430	.1%
Private Gifts & Grants	53,730	5.4%	3,730	.8%
Endowment	9,100	.9%	1,400	.3%
Other Sources (3)	24,810	2.5%	10,040	2.3%
Total	\$996,970	100.0%	\$442,310	100.0%

- (1) Includes instructional, general, non-resident, and misc. other fees.
- (2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
- (3) Includes temporary investments, prior years' earnings, rental income, etc.
- (4) Excludes all earnings and restricted funds.

APPENDIX XXV

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS  
OCTOBER-DECEMBER 1988

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees February 3, 1989  
(See page 697)

Report to the Fiscal Affairs Committee  
Waivers of Competitive Bidding Requirements  
October-December, 1988

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 30 waivers of competitive bidding requirements. The annual purchases authorized by the waivers total approximately \$841,700.00. The purchases included:

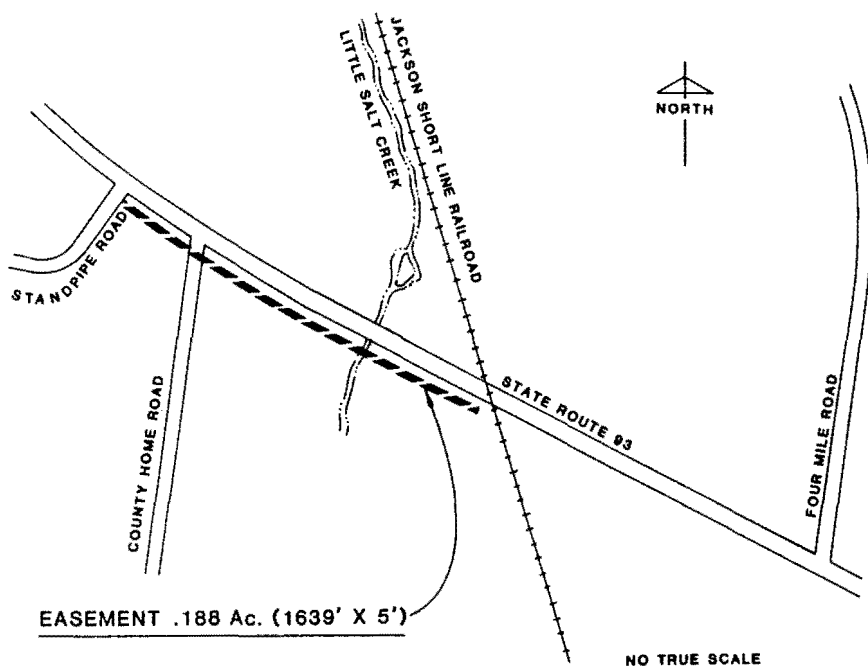
Instructional and Research Equipment	\$258,893	(7 waivers)
Instructional and Research Services	147,700	(8 waivers)
Hospital Equipment and Services	252,600	(6 waivers)
Travel, Accommodations, and Catering	119,988	(6 waivers)
Artists' Services	38,500	(2 waivers)
Research Park Construction Drawings	24,000	(1 waiver)

APPENDIX XXVI

EASEMENT  
BUCKEYE RURAL ELECTRIC CO-OPERATIVE, INC.

Adopted by the Board of Trustees February 3, 1989  
(See page 725)

Buckeye Rural Electric Co-operative, Inc. Easement  
at the Jackson County Branch  
of the Ohio Agricultural Research and Development Center



Office of Business and Administration  
February 3, 1989

APPENDIX XXVII

Degrees Conferred at

THE OHIO STATE UNIVERSITY  
COMMENCEMENT CONVOCATION

March 17, 1989





## Commencement Speaker

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### P. David Myerowitz, M.D.

P. David Myerowitz, an internationally known cardiac surgeon, is the Karl P. Klassen Professor and chief of thoracic and cardiovascular surgery at The Ohio State University. He established the University Hospitals' heart transplant program in 1986 after coming to Ohio State from the University of Wisconsin, where he founded and headed a similar program.

Also an associate professor of surgery and of internal medicine, Myerowitz performed the first heart transplant in central Ohio in July 1986. Since that time, more than three dozen additional patients have undergone heart transplant surgery at Ohio State.

He holds bachelor's and medical degrees from the University of Maryland and a master's degree in surgery from the University of Minnesota. After completing his residency program at Minnesota, he was awarded a two-year fellowship in cardiothoracic surgery at the University of Chicago Hospital. Myerowitz also served in the military for two years as a clinical associate for the United States Public Health Service.

At Ohio State, he is presently chair of the Transplant Patient Selection Committee, as well as a member of the Critical Care Policy and SKYMED Medical Advisory committees. He is on the board of directors of several organizations, including Lifeline of Ohio Organ Procurement and the Heart Transplant Foundation.

More than fifty of his research papers have been published, and he has contributed chapters to numerous text-

books. Myerowitz shared his administrative expertise in the book *Heart Transplantation*, which was published in 1987 and was the first guide to organizing a heart transplant program. He was co-editor of the 1985 book *Surgical Clinics of North America: Latest Advances in Cardiac Surgery*. His work has been presented at conferences, seminars, and symposia across the country and throughout Europe. We are delighted to welcome this distinguished member of the medical community as speaker for the University's 307th commencement.

## Recipient of Honors

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### **Andrew W. Marshall** **Doctor of Science**

Andrew W. Marshall has shaped American defense policy for almost forty years. The founder of Net Assessment in the Office of the Secretary of Defense, he and his staff evaluate American military resources in comparison to the capabilities of potential adversaries. He has served as director of Net Assessment for fifteen years.

Marshall received his bachelor's degree from Wayne University and his master's degree from the University of Chicago. He began his career with the RAND Corporation in Santa Monica, California. During his twenty-three years there, he rose to the position of director of strategic studies and laid the intellectual foundation of the United States' strategic policy of deterrence.

In 1972, Henry Kissinger recruited him onto the National Security Council staff, and in 1973, Marshall moved to the Department of Defense to establish the Office of Net Assessment. Since that time, he has served five secretaries of defense, four presidents, and both political parties with non-partisan professionalism.

While the content of much of his work is classified, the quality of his contributions is widely known. The hallmark of Marshall's work has been his insistence in using the widest possible approach to his investigation. He is a vigorous proponent of studying the past to shed light on the future. In the last decade, Marshall has pioneered the application of historical analysis to contemporary defense problems. He also has served as a liaison between academia and the military, as he draws from

academic disciplines and traditions to clarify public policy. His scholarly approach to defense policy—an approach based on evidence and logic instead of politics and ideologies—has provided objectivity in an often emotional arena. The Ohio State University is proud to honor him for his vision, his wisdom, and his decades of accomplishment that will guide our nation for generations to come.

## The Graduate School

Dean: Roy A. Koenigsnecht

### Doctor of Philosophy

**Rene Anand**, Madras, India; B.S. (Loyola College); M.S. (Indian Institute of Technology); *OSU Biochemistry Program*  
Dr. E. F. Vanin

**Nicolae Anghel**, Rumania; B.Sc., M.Sc. (University of Bucharest); *Mathematics*  
Dr. Henri Moscovici

**Peter Ankrah**, Accra, Ghana; B.S. (The University of Ghana); M.S. (The University of Sidney); *Animal Science*  
Dr. S. C. Loerch

**David Charles Arters**, Bedford; B.S. (University of Cincinnati); M.S., *Chemical Engineering*  
Dr. Liang-Shih Fan

**David Joel Bailey**, Slippery Rock, PA; D.L. (Slippery Rock State College); M.A.; *Psychology*  
Dr. Dorothy Jackson

**Albert Bosma**, Ontario, Canada; B.A.; M.A. (Lakehead University); *Education*  
Dr. T. Stephens

**Leslie Frances Johnson Brady**, Minster; B.A. (Capital University); M.A.; *Education*  
Dr. William W. Wayson

**Craig Bernreuter Caldwell**, Flagstaff, AZ; B.A. (Florida Southern College); M.F.A. (University of Florida); *Art Education*  
Dr. Thomas E. Linehan

**H. Lee Campbell**, Columbus; B.S. (Oakland University); *Anatomy*  
Dr. Jacqueline C. Bresnahan,  
Dr. Michael S. Beattie

**Kan-teh Chang**, Taiwan, R.O.C.; B.S. (Kaohsiung Teacher's College); M.S. (University of Texas at El Paso); *Chemistry*  
Dr. Daniel L. Leussing

**Fan-Tien Cheng**, Lung-Tan, Taiwan, R.O.C.; B.S.E.E. (National Cheng Kung University); M.S.; *Electrical Engineering*  
Dr. David E. Orin

**Shiuh-Kao Chiang**, Taipei, Taiwan, R.O.C.; B.S. (National Tsing-Hua University); M.S. (University of Notre Dame); *Ceramic Engineering*  
Dr. Dennis W. Readey

**Shizhen Chou**, Hong Kong; B.A. (The Baptist College of Hong Kong); M.A.; *East Asian Languages and Literatures*  
Dr. Frank F. S. Hsueh

**Peil-Ying Mark Chu**, Taichung, Taiwan, R.O.C.; B.S.E.E. (National Taiwan University); M.S.; *Computer and Information Science*  
Dr. Ming T. Liu

**Jeffrey H. Cinnamond**, Lakewood; B.A., M.A., M.A. (Bowling Green State University); *Education*  
Dr. Robert Silverman

**Frances Hamilton Courson**, Lincolnton, NC; B.S. (Mercer University); M.A. (Western Carolina University); *Education*  
Dr. William Heward

**Chikako Inoue Cox**, Osaka, Japan; B.A., M.A.; *Education*  
Dr. Susan J. Sears

**Charlene Marie Czerniak**, Toledo; B.A. (The University of Toledo); M.A. (Bowling Green State University); *Education*  
Dr. Roger Cunningham

**Hashem Dezhbakhsh**, Fars, Iran; B.S. (Shiraz University); M.A. (University of Akron); *Economics*  
Dr. Jerry Thursty

**Chester Daniel Dilday**, Columbus; B.A., M.S.W.; *Social Work*  
Dr. Keith M. Kilty

**Tapu Ashis Dutta-Choudhury**, Columbus; B.A. (University of Pennsylvania); M.S. (Case Western Reserve University); *Pharmacology*  
Dr. Ralph E. Stephens, Dr. Daniel Couri

**Uba Satch Ejike**, Umuahia, Imo, Nigeria; LL.B. (Honors), M.S. (The University of Lagos); B.L. (Nigeria Law School); M.A.; *History*  
Dr. K. Austin Kéfr

**Kamyar Enshayan-L**, Babol, Iran; B.S.M.E., M.S.; *Agricultural Engineering*  
Dr. Ted H. Short

**Reginald Fennell**, Goldsboro, NC; B.A., M.Ed. (North Carolina State University at Raleigh); M.A.; *Health, Physical Education and Recreation*  
Dr. R. Cory Bates

**Scott Alden Fisher**, Delaware; B.A., M.A. (University of California at Santa Barbara); *Classics*  
Dr. Jane Snyder

**J. Michael Geary**, Dunbar, WV; B.S. (Davis and Elkins College); M.S.W. (West Virginia University); *Social Work*  
Dr. Robert Ryan

**John Howard Gibson**, London, England; B.Ed. (St. Luke's College); M.S. (Marshall University); *Health, Physical Education and Recreation*  
Dr. Seymour Kleinman

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Dr. Seymour Kleinman

**Michael J. Girard**, Santa Rosa, CA; B.S., B.S. (University of California at Santa Cruz); *Computer and Information Science*  
Dr. Bruce W. Weide

**Mary Melinda Gugelchuk**, South Point; B.S.; *Chemistry*  
Dr. Leo A. Paquette

**Laurie Porter Gunderson**, Cincinnati; B.S. (The University of Evansville); M.S. (The University of Cincinnati); *Nursing*  
Dr. Kathleen Stone

**Karl William Haider**, Altoona, PA; B.S. (Juniata College); M.S.; *Chemistry*  
Dr. Mathew Platz

**Gwang-Jub Han**, Seoul, South Korea; B.A. (Hankuk University of Foreign Studies); M.A. (Seoul National University); M.A.; *Communication*  
Dr. Joseph M. Foley

**David Roger Haumann**, Columbus; B.S. (Brown University); M.S.; *Computer and Information Science*  
Dr. Charles A. Csuri

**Ahmed Ali Hayajneh**, Jordan; B.S. (Helwan University); M.A. (Michigan State University); *Health, Physical Education and Recreation*  
Dr. Barbara Nelson

**Sharda Kattingeri Hebbur**, Hyderabad, India; B.S. (Osmania University); M.S. (Andhra University); *Molecular Genetics*  
Dr. P. S. Perlman

**Peter William Hoffman**, Baltimore, MD; B.S. (Saint Lawrence University); M.S.; *Molecular Genetics*  
Dr. Phillip Perlman

**I Min Hsu**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S. (Stanford University); *Engineering Mechanics*  
Dr. Carl H. Popelar

**Tsorn-Chyi Hwang**, Taiwan, R.O.C.; B.A. (National Chung-Hsing University); M.S.; *Agricultural Economics and Rural Sociology*  
Dr. Donald Larson

**Moon Hyuk Im**, Seoul, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); *Engineering Mechanics*  
Dr. Sunder H. Advani, Dr. June K. Lee

**Anita Patricia Jackson**, Zanesville; B.S., M.A. (Ohio University); *Education*  
Dr. Susan Sears

**Yong-Deok Jeon**, Taegu, South Korea; B.A. (Korea University); *Economics*  
Dr. Edward J. Ray

**Guochen Jia**, Shiyn, Hubei, P.R.C.; B.S. (Wuhan University); *Chemistry*  
Dr. Devon W. Meek, Dr. Andrew Wojcicki

- Tony Ramos Joaquim**, Newark, NJ; B.A. (Rutgers University); M.A.; *Plant Pathology*  
*Dr. Randall C. Rowe*
- Mary Charlotte Johnson**, Columbus; B.S. (Kent State University); M.A.; *Education*  
*Dr. Maia Pank Mertz*
- Diane Ruth Karius**, Chicago, IL; B.S. (Loyola University); *Physiology*  
*Dr. Albert L. Kunz*
- Billie Louise Kerans**, Columbus; B.S., M.S. (Wright State University); *Zoology*  
*Dr. Peter Chesson, Dr. Roy Stein*
- Min-Young Kim**, Seoul, South Korea; B.S. (Ewha Woman's University); M.S.; *Biochemistry*  
*Dr. David H. Ives*
- Alexander Charles Kirlik**, Bay Village; B.S.I.S.E., M.S.; *Industrial and Systems Engineering*  
*Dr. Richard A. Miller*
- Sehoon Ko**, Seoul, South Korea; B.A. (Yonsei University); M.A. (Seoul National University); M.A. (Syracuse University); *Political Science*  
*Dr. Richard Gunther*
- Bruce Edward Kreischer**, Westerville; B.S. (University of Cincinnati); M.S. (Iowa State University); *Chemical Engineering*  
*Dr. Liang-Shih Fan*
- Sampath Krishnaswamy**, Tamilnadu, India; B.E. (Indian Institute of Science); B.S. (A.M. Jain College); M.E. (Regional Engineering College); *Welding Engineering*  
*Dr. William A. Baeslack*
- Jong-Won Kwon**, Seoul, South Korea; B.S. (Hanyang University); M.S.; *Metallurgical Engineering*  
*Dr. George R. St. Pierre*
- Ik-Mo Lee**, Inchon, South Korea; B.S., M.S. (Seoul National University); *Chemistry*  
*Dr. Andrew Wojcicki*
- Seong-Rae Lee**, Dae-Jeon, South Korea; B.S. (Seoul National University); M.S. (Korea Advanced Institute of Science and Technology); M.S.; *Mechanical Engineering*  
*Dr. K. Srinivasan*
- Tae Soo Lee**, Kyungbuk, South Korea; B.S., M.S. (Seoul National University); *Engineering Mechanics*  
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*Dr. Peter Pappas*
- Mariah T. Liggett**, Marysville; B.A. (Slippery Rock University); M.A.; *Health, Physical Education and Recreation*  
*Dr. William Marras, Dr. Robert L. Bartels*
- Meily Lin**, Taipei, Taiwan, R.O.C.; B.S. (Cheng-Chi University); M.S.; *Statistics*  
*Dr. A. Dean*
- Alison S. Linn-Mowery**, Delaware; B.S., M.A.; *Psychology*  
*Dr. Henry Leland*
- Mark Owen Lombardi**, Smithfield, RI; B.A. (Purdue University); M.A.; *Political Science*  
*Dr. James E. Harf*
- Uma Prasad Mahanta**, West Bengal, India; B.S. (University of Calcutta); M.S.; *Physics*  
*Dr. Kenneth D. Lane*
- Timothy Jay McNeish**, Zanesville; B.S., M.A.; *Education*  
*Dr. Jack A. Naglieri*
- Robert Brian McWhirter**, Murrysville, PA; B.A. (College of Wooster); M.S.; *Chemistry*  
*Dr. Michael H. Klapper*
- Cecil Michael Miller**, Thornville; B.S. (Ohio University); M.A. (Western Kentucky University); *Psychology*  
*Dr. John C. Gibbs*
- Joseph William Mitchell**, Boardman; B.S.; *Physics*  
*Dr. Thomas A. Romanowski*
- Lenore Booth Morse**, Middlebury, VT; B.A. (University of Connecticut); M.Ed. (University of Vermont); M.A.; *Education*  
*Dr. Victor M. Rentel*
- Siddhartha Mukherjee**, Bombay, India; B.Sc. (University of Bombay); *Physics*  
*Dr. David O. Edwards*
- Norma Jean Mullins**, Columbus; B.S.Ed., M.Ed. (Xavier University); *Education*  
*Dr. Sandra McCormick*
- Cherryl McCrary Nappier**, Saint Louis, MO; B.S.Ed. (Central Missouri State University); M.Ed.; *Education*  
*Dr. James Wigitil*
- Michael L. Nortman**, Bayonne, NJ; B.A. (University of Pennsylvania); M.A. (Marshall University); *Education*  
*Dr. Josue Cruz, Dr. Lorren Stull*
- Jeffrey Michael Novak**, Roselle, NJ; B.S. (Delaware Valley College); M.S. (Iowa State University); *Agronomy*  
*Dr. Neil Smeck*
- Patricia Pacheco-Jara**, Concepcion, Chile; Licenciado en Biologia (Universidad de Concepcion); *Botany*  
*Dr. Tod F. Stuessy*
- Lucinda Ann Pfalzer**, Batavia, NY; B.S. (Ithaca College); M.A.; *Health, Physical Education and Recreation*  
*Dr. Donald D. Harper*
- Karen Viola Pizzimenti**, Niagara Falls, NY; B.S. (State University of New York at Buffalo); M.S. (Indiana State University); *Home Economics*  
*Dr. Marion L. Cremer*
- Thomas Leslie Prince**, Dover; B.S.Agr., M.S.; *Horticulture*  
*Dr. Harry Tayama, Dr. John Grabner*
- William Francis Punch III**, Westchester; B.S., M.S.; *Computer and Information Science*  
*Dr. B. Chandrasekaran*
- Yingyong Qi**, Tianjin, P.R.C.; B.S. (University of Science and Technology of China); M.S. (Institute of Acoustics); *Speech and Hearing Science*  
*Dr. Robert A. Fox*
- Brian Walter Randolph**, Greenville; B.S., M.S. (University of Cincinnati); *Civil Engineering*  
*Dr. Tien Hsing Wu*
- Mohammed Saleh Resayes**, Riyadh, Saudi Arabia; Diploma (Art Education Institute); B.A. (Helwan University); M.A.; *Art Education*  
*Dr. Kenneth Marantz*
- John Walter Reveley**, Reynoldsburg; B.S. (Rutgers University); M.S.; *Physiology*  
*Dr. Jack Boulant*
- Mark Alan Rush**, Columbus; B.A., B.Mus., M.Mus.; *Music*  
*Dr. David Butler*
- Chih Hao Shen**, Taiwan, R.O.C.; B.S. (National Cheng Kung University); M.S.; *Metallurgical Engineering*  
*Dr. Paul Sheuon*
- Wunjang K. Shieh**, Taiwan, R.O.C.; B.S.E.E. (Chung-Yuan University); M.S.E.E. (National Taiwan University); *Electrical Engineering*  
*Dr. Jogikal M. Jagadeesh*
- Gideon Ngaka Shongwe**, Swaziland; B.S. (Western Illinois University); M.S. (University of Guelph); *Agronomy*  
*Dr. Samuel Traina, Dr. Terry Logan*
- Gyung-Ho Song**, Seoul, South Korea; B.S. (Seoul National University); M.S.; *Chemical Engineering*  
*Dr. Liang-Shih Fan*
- Sandhya Balakunthala Sridhar**, Bombay, India; B.A., M.A. (The University of Bombay); *Business Administration*  
*Dr. Janina C. Latack*
- Jill Annette Strawbridge**, Los Angeles, CA; B.A. (University of California at Los Angeles); M.A. (California State University); *Industrial and Systems Engineering*  
*Dr. George Smith*
- Carolyn Supplee**, Mantua, NJ; B.A. (Goucher College); M.S.; *Chemistry*  
*Dr. Andrew Wojcicki, Dr. Devon W. Meek*
- James Tazewell Talley**, Columbus; B.M.Ed., M.M. (University of Montevallo); *Music*  
*Dr. David M. Butler*

**Michael Clay Tanner**, Columbus; B.S.Ed., M.S.; *Computer and Information Science*  
Dr. B. Chandrasekaran

**Wilson Anthony Taylor**, Indiana, PA; B.S. (Indiana University of Pennsylvania); M.S.; *Botany*  
Dr. Thomas N. Taylor

**Gaochao Tian**, Lanzhou, Gansu; B.S. (Lanzhou University); *OSU Biochemistry Program*  
Dr. M. D. Tsai

**Deborah Ann Todhunter**, Ebsenburg, PA; B.S., M.S. (Pennsylvania State University); *Dairy Science*  
Dr. K. Larry Smith

**Linda Vespa**, Boardman; B.S. (Grove City College); M.S.; *Microbiology*  
Dr. Bruce S. Zwilling

**Olegario Guerrero Villoria, Jr.**, Lipa City, Philippines; B.S. (The University of the Philippines); M.S.; *Civil Engineering*  
Dr. Zoltan Nemeth, Dr. Mark McCord

**Xiaoming Wan**, Wuhan, Hubei, P.R.C.; B.S. (Wuhan University); *Chemistry*  
Dr. Laurence J. Berliner

**David Alan Wright**, Frazeysburg; B.S.; *Health, Physical Education and Recreation*  
Dr. William M. Sherman

**Simon H. Yen**, Taipei, Taiwan, R.O.C.; B.B.A., M.S. (National Cheng-Kung University); M.B.A. (Saint Louis University); M.A.; *Business Administration*  
Dr. Rene M. Stulz

**Jeffrey Allan Yost**, Barberton; B.S.B.A. (Miami University); M.B.A. (University of Akron); *Accounting and Management Information Systems*  
Dr. Thomas J. Burns

## Master of Applied Statistics

**Li-Peng Ho**, Taipei, Taiwan, R.O.C.; B.S. (National Chung-Hsing University); *Statistics*

**Hweichy Lin**, Taipei, Taiwan, R.O.C.; B.Arch. (Tunghai University); *Statistics*

**Peter Bradford Shaw**, Cincinnati; B.A. (Yale University); M.A. (The University of California at Los Angeles); Ph.D. (The University of California at Davis); *Statistics*

**Wen-Dih Yao**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan College of Marine Science and Technology); *Statistics*

## Master of Architecture

**James Richardson Deane**, Killeen, TX; B.S. (The University of Texas at Arlington); *Architecture*

**Dimitris A. Farmakis**, Thessaloniki, Greece; B.Arch. (Aristotle University of Thessaloniki); *Architecture*

**Lora Ellen Sebald**, Dayton; B.S.Arch.; *Architecture*

**David Allen Youse**, Worthington; B.S.Arch.; *Architecture*

## Master of Arts

**Linda Marie Aldrich**, Ypsilanti, MI; B.A. (Hope College); *Psychology*

**Spencer A. Alexander**, Columbus; B.A. (The College of the City of New York); *English*

**Paul William Almonte**, Brooklyn, NY; B.A. (Southern University of New York at Binghamton); *English*

**Susan Amkraut**, Palo Alto, CA; B.A., B.S. (The University of California at Santa Cruz); *Art Education*

**Panida Aue-Apaikul**, Bangkok, Thailand; B.A.; M.A. (Chulalongkorn University); *Education*

**Neil James Bardon**, Bexley; B.S.Ed.; *Education*

**June Redgar Bargar**, Delaware; B.S.Soc. Adm.; *Education*

**Suzanne Marie Beaumont**, Reading, PA; B.A. (College of William and Mary); *Health, Physical Education and Recreation*

**John Michael Beery**, Porterville, CA; B.A. (California State University at Sacramento); *Psychology*

**Marjorie Bennett**, Columbus; B.Mus.Ed., B.Mus.; *Music*

**Erick Noble Berquist**, Massillon; B.A.; *Public Administration*

**Carole Paris Bickel**, Blacklick; B.S.Ed.; *Mathematics*

**Nancy Andrew Brunner**, Columbus; *Business Administration*

**Stephen William Busonik**, Columbus; B.Mus.; *English*

**Joanna Lawyer Cavendish**, Columbus; B.A.; *Education*

**Holly Vanmeter Chakeres**, Sugar Grove; B.S. (Ohio University); *Education*

**Wei-Chun Chiu**, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); *History*

**Mary Ellen Clark**, Newton Square, PA; B.S. (Pennsylvania State University); *Health, Physical Education and Recreation*

**Lynne Michele Cope**, Wadsworth; B.A. (Baldwin-Wallace College); *Journalism*

**Beth Nelson Crow**, Terre Haute, IN; B.A., B.A. (Hanover College); *Communication*

**Anita Marie Davena**, Waverly; B.A.; *Psychology*

**Theresa Marie deGuzman**, Potomac, MD; B.A. (The College of Wooster); *Education*

**Eileen Patricia Delaney**, Columbus; B.S. (State University of New York at Buffalo); *Journalism*

**Theresa Marie Desmond**, Reno, NV; B.A. (The University of Nevada); *English*

**Diana N. Dicks**, Grove City; B.A. (The University of Nebraska at Omaha); *Education*

**Florence Doman**, San-Fernando, Trinidad & Tobago; B.S. (Howard University); *Health, Physical Education and Recreation*

**Keith Robert Donnelly**, Indianapolis, IN; B.S. (United States Military Academy); *Political Science*

**Nancy Geiser Eckert**, Bellevue, MI; B.S.Ed.; *Education*

**Mary C. Ewing, Ada**; B.S.Ed. (Ohio Northern University); *Education*

**Leslie Joan Farley Sheets**, Gallipolis; B.A.; *Communication*

**Patricia Bibko Forward**, Columbus; B.A.; *Education*

**William Jeffrey Gaetz**, Toledo; B.S. (Bowling Green State University); *Journalism*

**John Thomas Gardner**, University Heights; B.S., M.B.A. (East Carolina University); *Business Administration*

**Felicia Marie Gersi**, Dublin; B.S. (Miami University); *Journalism*

**William Paul Getzey, Jr.**, Johnstown, PA; B.F.A. (Edinboro University); *Photography and Cinema*

**Janet Sue Gibson**, Pickerington; B.S. (Miami University); *Education*

**Melisa Hill Graham**, Zanesville; B.S.Ed.; *Education*

**Jose Filipe Garcia Correia Guedes**, Lisbon, Portugal; Bachelors; *Economics*

**Michael Bryan Guess**, Dublin; B.S., D.D.S. (The University of California at San Francisco); M.S.; *Education*

**Mahmoud Mohammad Hajjat**, Columbus; B.A. (Yarmouk University); *Business Administration*

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**Pamela Sue Heilman**, Havre, MT; B.A. (Rocky Mountain College); *Theatre*

- James Robert Herd**, Fairborn; B.S.Ed.; *Education*
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- Clark Eric Hultquist**, Columbus; B.A. (University of Cincinnati); *History*
- Allan Eugene Johnson**, San Pedro, CA; B.A., M.S. (California State University at Long Beach); *Education*
- William Allan Jones, Jr.**, Columbus; B.S. (University of North Carolina); M.S. (Montana State University); *History*
- James Richard Karpac**, Columbus; B.A., D.D.S.; *Education*
- Deborah Ann Katz**, Cleveland; B.A. (The University of Pennsylvania); *Health, Physical Education and Recreation*
- Laura Suzanne Keating**, Traverse City, MI; B.A. (Michigan State University); *Philosophy*
- Bradford Lee Kess**, Beachwood; B.S.Food Sc., B.S.Food Tech., D.D.S.; *Education*
- Mark Louis Kilwein**, Pittsburgh, PA; B.S. (The University of Pittsburgh); *Psychology*
- YoungHwan Kim**, Pusan, South Korea; B.A. (Pusan National University); *Education*
- Scott Robert Kirkman**, Columbus; B.A., M.A. (Miami University at Oxford); *History*
- Midori Kitagawa**, Kobe, Hyogo, Japan; B.A. (Women's College of Fine Arts); *Art Education*
- Judith Lee Kitchen**, Columbus; B.Arch, M.Arch. (University of Virginia); *Business Administration*
- Kathryn Alison Kost**, Columbus; B.S. (The University of Wisconsin at Whitewater); *Psychology*
- Linda Catherine Kuhn**, Logan, B.A., B.S.Ed.; *Education*
- Annette Mealy Kuss**, Springfield; B.S.Ed. (Miami University); *Education*
- In-Sub Kwak**, Anyang, Gyeong-Gi, South Korea; B.A. (Pusan National University); *Economics*
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- Neng-Pai Lin**, Taipei, Taiwan, R.O.C.; B.A. (National Taiwan University); *Business Administration*
- Thomas Hamilton Little**, Claremont, NC; B.A. (The University of North Carolina at Greensboro); *Political Science*
- Willie Ladale Lloyd**, Anniston, AL; B.A. (Alabama State University); *Journalism*
- Kathleen Jonita Lynch**, Columbus; B.S. (Miami University); M.S.W.; *Public Administration*
- Lucy Eleonore Lyons**, San Diego, CA; A.B. (San Diego State); *Political Science*
- Wolfgang Mansky**, Hanover, West Germany; Diploma (Fachhochschule); *Industrial Design*
- Michael Hughes Mathison**, Cincinnati; B.A. (The University of Cincinnati); *Education*
- Jane Ellen Maul**, New Washington; B.M.Ed. (The University of Akron); *Music Education*
- Gary Brian Mayton**, Hudson; B.S.Ed.; *Education*
- Molly Ann McCarrick**, Columbus; B.A. (Capital University); *Education*
- Brenda K. Miller**, Van Wert; B.A.; *Public Administration*
- Mark Carlton Miller**, Marysville; B.A. (Ohio Northern University); J.D. (George Washington University); *Political Science*
- Gayle Maree Millsaps**, Westerville; B.A. (The University of Tennessee); *Mathematics*
- Michael Scott Molasky**, St. Louis, MO; B.A. (Johnston College); *East Asian Languages and Literatures*
- Norman Arthur Mooradin**, Glenboro, CA; B.A. (Pitzer College); *Philosophy*
- Kevin Eugene Mullet**, Berlin; B.S.Ind.Des.; *Industrial Design*
- Alice W. Noll**, Gahanna; B.S.Nurs., M.S.; *Education*
- Jeri Lee Ott**, Coshocton; B.A.; *Health, Physical Education and Recreation*
- Gloria Elsa Pados**, Columbus; B.S.Ed.; *Education*
- Elizabeth Veronica Pastore**, Worthington; B.S. (Mercy College); *Education*
- Susan Sharp Peck**, Worthington; B.S. (Indiana University); *Business Administration*
- Trent Anthony Petrie**, Champaign, IL; B.S.; *Psychology*
- Connie Diane Phillips**, Eaton; B.S.Ed.; *Education*
- Jennifer Kay Pierce**, Franklin, VT; B.F.A. (Johnson State College); *Journalism*
- Denise Diane Porter**, Loudonville; B.S. (Kent State University); *Education*
- Frederick Carl Prohl**, Delaware; B.S. (Purdue University); *Education*
- Ernesto E. Ramos**, Maracaibo, Venezuela; B.Ed.Tesol (Instituto Universitario Pedagógico de Boto); *Education*
- James Arnold Rash**, Zanesfield; B.A. (Bowling Green State University); M.A. (Central Michigan University); *Philosophy*
- Edward Durell Ray**, Columbus; B.A. (The University of Utah); *East Asian Languages and Literatures*
- Gregory Ferral Robinson**, Fairlawn; B.S.; *Psychology*
- Scott William Robinson**, Berlin, CT; B.A. (Eastern Connecticut State College); *Health, Physical Education and Recreation*
- Lisa Ann Scherer**, Snyder, NY; B.S. (State University of New York at Cortland); *Health, Physical Education and Recreation*
- Corinne Kay Severance**, Sterling Heights, MI; B.S. (Michigan State University); *Education*
- Todd David Sevig**, Columbus; B.S. (Iowa State University); *Psychology*
- Nancy Lynn Shapiro**, Columbus; B.S.N. (William Paterson College); *Public Administration*
- Liwei She**, P.R.C.; B.A. (Tianjin Foreign Languages Institute); *East Asian Languages and Literatures*
- Nicasio Silverio**, Madrid, Spain; B.A.; *Romance Languages and Literatures*
- Paul Bradley Slane**, Westerville; B.S.Ed.; *Health, Physical Education and Recreation*
- Richard Charles Spielman**, Massillon; B.S. (Southern Illinois University); *Health, Physical Education and Recreation*
- Richard Peter Squire**, Woking, Surrey, England; B.A. (Leicester University); *Geography*
- Joan Irene Staveley**, Columbus; B.A. (University of California at San Diego); *Art Education*
- In Sook Suh**, Seoul, South Korea; B.A. (Hanyang University); *Photography and Cinema*
- Lynn Ellis Swisher**, Columbus; *Education*
- Tierney Ellen Thoman**, Columbus; B.S.Ed.; *Education*
- Janet Gail Underwood**, Dayton; B.G.S. (The University of Dayton); *Journalism*
- Pei-Ling Wang**, Taiwan, Taiwan, R.O.C.; B.A. (Tamkang University); *Education*
- Brent Alan Watson**, Cambridge; B.S.Nat.Res.; *Public Administration*

Jill Marie Weiler, Columbus; B.A. (Brown University); *Education*

Cassandra Jarvis White, Columbus; B.S.; *Speech and Hearing Science*

Colleen Griffin White, Columbus; B.S. (Wheeling College); *Education*

Nora Elizabeth White, West Jefferson; B.A. (Urbana University); *Education*

David James Willcox, Hamilton; B.S. (The University of Otago); *Health, Physical Education and Recreation*

Susan Jane Williams, Fort Wayne, IN; B.A. (Saint Francis College); *History of Art*

Deborah Huntoon Wiseman, Galion; B.S.Ed.; *Education*

Deanne Beth Witiak, Mt. Vernon; B.S.Ed.; *Education*

Chaweeon Wongwarangkul, Bangkok, Thailand; B.A. (Chulalongkorn University); *Education*

Kymme Denise Wright, Columbus; B.S.Ed.; *Education*

Ya-Ting Wu, Taichung, Taiwan, R.O.C.; B.A. (Tunghai University); *Music*

Yao Wu, Taipei, Taiwan, R.O.C.; B.Mus.Ed.; *Music*

Ke Zou, Nanchang, Jiangxi, P.R.C.; B.A. (Jiangxi Normal University); M.A. (Guangzhou Foreign Language Institute); *Linguistics*

### **Master of City and Regional Planning**

Marilyn June Roberson, Massillon; B.A. (Kent State University); M.C.R.P.; *City and Regional Planning*

Xiaofeng Xu, Beijing, P.R.C.; B.A. (People's University of China); *City and Regional Planning*

### **Master of Fine Arts**

Scott Alan Bennett, Columbus; B.S. (West Liberty State College); M.A. (Morehead State University); *Art*

Peter Allen Massing, Columbus; B.F.A. (State University of New York at Buffalo); *Art*

Krista Kay Tucker, Brockport, NY; B.S. (Ball State University); M.A. (Kent State University); *Dance*

### **Master of Health Administration**

Rebecca Lower German, Columbus; B.S.A.Hth.Prof.; *Hospital and Health Services Administration*

Joyce Marie Rosenberger, Columbus; B.A. (Juniata College); M.O.T. (Western Michigan University); *Hospital and Health Services Administration*

### **Master of Labor and Human Resources**

Jill Ann Hannah, Columbus; B.S. (Bowling Green State University); *Labor and Human Resources*

Linda Jo Labate-Ackley, Youngstown; B.A.; *Labor and Human Resources*

Milan D. Lint, Dennison; B.S.Bus.Adm.; *Labor and Human Resources*

David Christian Rehkopf, Powell, B.A. (State University of New York at Buffalo); *Labor and Human Resources*

Ora Spann, Rembert, SC; B.S. (Wilberforce University); B.S. (University of Dayton); *Labor and Human Resources*

### **Master of Landscape Architecture**

Kathy Jane Florence, Columbus; B.S. Nursing (Harding College); *Landscape Architecture*

Hiroki Izumi, Akita, Japan; B.A. (Musashino Art University); *Landscape Architecture*

Gregory Robert Krobot, St. Louis, MO; B.S. (University of Missouri at Columbia); *Landscape Architecture*

Huan Rong, Beijing, P.R.C.; B.L.A. (Beijing Forestry University); *Landscape Architecture*

### **Master of Music**

Marjorie Bennett, Columbus; B.Mus.Ed., B.Mus.; *Music*

### **Master of Science**

Jinmy Eduardo Adjunta, Maracaibo, Venezuela; B.S.Mech.Eng. (The University of Missouri at Rolla); *Mechanical Engineering*

Mohamed Tahsin Alchorbaji Mzaik, Syrian Arab Republic; B.S.E.E.; *Electrical Engineering*

Perry David Allen, Marysville; B.S.; *Natural Resources*

Paula S. Allton, Columbus; B.S.Med.Tech.; *Allied Medical Professions*

Marie June Anderson, Wausau, WI; B.S. (The University of Wisconsin at Platteville); *Plant Pathology*

V. Babu, Trichy, Tamilnadu, India; B.E. (The University of Madras); *Mechanical Engineering*

Theresa Lewis Baker, Bethesda, MD; B.S. (The University of Maryland); *Ceramic Engineering*

Ayge Bayazitoglu, Istanbul, Turkey; B.S. (Bogazici University); *Computer and Information Science*

Barbara Deborah Becker, Columbus; B.A., M.S. (State University of New York at Albany); *Computer and Information Science*

Bryan Jerome Bickimer, Mansfield; B.M.E. (Cleveland State University); *Welding Engineering*

Bryan Robert Bonke, El Paso, CO; B.S. (Valparaiso University); *Chemistry*

Gregory Ray Booher, New Concord; A.A.S., B.S.Agr.; *Agricultural Education*

David Stuart Bradin, Willingboro, NJ; B.A. (Wittenberg University); *Chemistry*

Kay Jontz Brown, Carmel, IN; B.S.N. (Indiana University); *Nursing*

Kathleen Ann Bruner, Columbus; B.S.; B.A. (Miami University); *Zoology*

Aaron Lee Bush, Grain Valley, MO; B.S. (Northwest Missouri State University); *Mathematics*

Anne Marie Cagle, Kettering; B.S.C.I.S.; *Electrical Engineering*

Kevin Michael Cawthern, Elysburg, PA; B.S. (Carnegie-Mellon University); *Chemistry*

James Harry Chakeres, Washington Court House; B.S.Agr.; *Animal Science*

Vijay Prem Chandnani, Columbus; B.A. (The University of Chicago); M.D.; *Radiology*

Wen-Wen Chen, Tainan, Taiwan, R.O.C.; B.S. (Tzungshai University); *Pathology*

Gorky Chin, Cleveland Heights; B.S.E.E.; *Electrical Engineering*

David Harold Chinery, Flagtown, NJ; B.S. (Rutgers University); *Horticulture*

Anant Chinnaboot, Bangkok, Thailand; B.S. (The Royal Thai Military Academy); *Geodetic Science and Surveying*

Tahar Chouikh, El-Alia, Tunisia; B.S.M.E.; *Mechanical Engineering*

Scott J. Coe, Worthington; B.S. (Texas A & M University); *Mechanical Engineering*

Brenda L. Coles, Columbus; B.S. (Youngstown State University); *Allied Medical Professions*

Peter Kwame Condobery, Hohoe, Ghana; B.S. (Bombay Veterinary College); *Poultry Science*

- Timothy M. Copelin**, Shawnee, OK; A.B. (Saint Anslem's College); *Zoology*
- Keith Richard Cromack**, Land O' Lakes, FL; B.S. (The University of Florida); *Physics*
- Paul Kevin Cunningham**, Detroit Lakes, MN; B.S. (University of Wisconsin at Stevens Point); *Zoology*
- Carlos Fernando Diaz Suarez**, Colombia; Diploma (Universidad Ind de Santander); *Civil Engineering*
- Jerome William Donovan, Jr.**, Delaware; B.S.Agr.; *Agricultural Education*
- Bertha Ann Ford**, Huntsburg; B.S.Nurs.; *Nursing*
- Thomas Robert Foster**, Westerville; B.S. (The University of Southern California); M.D.; *Radiology*
- Kevin Fairbairn Fowler**, Painesville; B.S.Agr.; *Agricultural Economics and Rural Sociology*
- Roger Allan Fulton**, Strongtown, PA; B.S. (Indiana University of Pennsylvania); *Physics*
- Jeffrey Owen Gerberick**, Cincinnati; B.S.Bus.Adm. B.S.Agr.; *Horticulture*
- Steven Joseph Giust**, Columbus; B.S.; *Mathematics*
- Susan Rebecca Gresham**, Columbus; B.S.N. (Otterbein College); *Nursing*
- James Allen Hall**, Dublin; B.S.C.E.; *Civil Engineering*
- Suzanne Hanes**, Columbus; B.A. (Capital University); *Natural Resources*
- Fugui He**, Chongqing, Sichuan, P.R.C.; B.S. (Sichuan University); M.S. (Chongqing University); *Welding Engineering*
- Craig Francis Hemann**, Brooklyn; B.S. (Case Western Reserve University); *Bio-Medical Engineering*
- Gregory Eugene Hilmas**, Worthington; B.S. (University of Minnesota); *Ceramic Engineering*
- Robert Lee Hoffman**, Bellevue; B.S.Agr.; *Agricultural Education*
- Keethwan Hong**, Taegu, South Korea; B.S., M.S. (Seoul National University); *Geodetic Science and Surveying*
- Yunkui Hou**, P.R.C.; B.S. (Wuhan Technique University); M.S.; *Statistics*
- Goang-Tay Hou**, Huwei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Computer and Information Science*
- Shih-ying Hwang**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan University); *Agronomy*
- Jeong Sik Hyun**, Seoul, South Korea; B.A. (Hanyang University); *Industrial and Systems Engineering*
- Thomas M. Insalaco**, Oak Ridge, TN; B.A. (State University of New York at Potsdam); *Industrial and Systems Engineering*
- Muhammad Iqbal**, Punjab, Pakistan; B.A. (Punjab University); M.S. (Quaid-I-Azam University); *Agricultural Economics and Rural Sociology*
- Debra K. Bostwick Jackson**, Radnor; B.S.N. (Franklin University); *Nursing*
- Julie Louise Johnson**, Cambridge; *Home Economics*
- Brian Douglas Jones**, Sunbury; B.S.Ch.E.; *Mathematics*
- Akiyoshi Kabe**, Moriyama-ku, Japan; B.S. (The University Tokyo); *Welding Engineering*
- Kathleen Jane Kingma**, Columbus; B.S. (Marietta College); *Geology and Mineralogy*
- Kevin Daniel Klingler**, Kenton; B.S.Nat.Res.; *Natural Resources*
- Sudhakar Kolli**, India; B.M.E. (Andhra University); M.S. (Indian Institute of Technology); *Welding Engineering*
- Timothy John Kropf**, Cincinnati; B.S. (Rose-Hulman Institute of Technology); *Electrical Engineering*
- Dale Alan Krummen**, Pickerington; B.S. (Purdue University); *Electrical Engineering*
- Larry Edward Kunz**, Lebanon, IL; B.A. (McKendree College); *Geodetic Science and Surveying*
- Cori Ann Kurtz**, South Amboy, NJ; B.S.C.E.; *Civil Engineering*
- Colleen Marie Lang**, North Olmsted; B.S.N. (Ohio Wesleyan University); *Nursing*
- Chad Eugene Law**, Huron; B.S.M.E.; *Mechanical Engineering*
- Samuel F. Lebowitz**, Columbus; B.S. (Pennsylvania State University); *Food Science and Nutrition*
- Dong-Eun Lee**, Taegu, South Korea; B.S. (Seoul National University); *Home Economics*
- Susan Kay Lee**, Bloomington, IN; B.S.Nurs.; *Nursing*
- Carolyn Jean Leroux**, Toledo; B.S. (University of Notre Dame); *OSU Biochemistry Program*
- Laura Roxanne Letcher**, Ramsey, NJ; B.S. (The University of Delaware); *Animal Science*
- Xia Li**, Columbus; B.S. (Nankai University); M.S.; *Computer and Information Science*
- Deron Craig Littlejohn**, Troy; B.S.E.E.; *Electrical Engineering*
- Hung Cam Ly**, Columbus; B.S.E.E.; *Electrical Engineering*
- Harry N. Malone**, Hilliards; B.S. (University of Pittsburgh); *Natural Resources*
- David Marshall, Jr.**, Painesville; O.D.; *Physiological Optics*
- Philip Brian McCorkle**, Dublin; B.S.E.E. (University of Dayton); *Bio-Medical Engineering*
- Robert Sherman McIntyre**, Columbus; B.S.Bus.Adm.; *Geodetic Science and Surveying*
- Mark Stephen Merry**, Edinboro, PA; B.S.C.I.S. (Edinboro University); *Computer and Information Science*
- Stephen Gerald Miller**, Centerville; B.S.E.E.; *Electrical Engineering*
- Gareth Allen Moore**, Pembroke, VA, Canada; B.A. (Dartmouth College); D.V.M. (University of Guelph); *Veterinary Physiology and Pharmacology*
- John Barteau Morley**, Milwaukee, WI; B.S. (The University of Wisconsin); *Engineering Mechanics*
- James Charles Mosure**, Canfield; B.S. (University of Cincinnati); M.D. (Northeastern Ohio College of Medicine); *Radiology*
- Kathleen Annette Mullaney**, Edwards, NY; B.S. (Saint Lawrence University); *Geology and Mineralogy*
- Paul Joseph Murphy**, Columbus; B.S. (Fairfield University); *Physics*
- Rajesh Nagpal**, Rajasthan, India; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*
- George William Nasinyama**, Busia, Uganda; B.V.M. (Makerere University); *Veterinary Preventive Medicine*
- James Jerome Obloza**, Toledo; B.S. (The University of Toledo); *Mechanical Engineering*
- Jeanne Marie Osborne**, Kettering; B.S.Agr.; *Animal Science*
- Hilmi Bin Othman**, Selangor, Malaysia; B.S. (Ferris State College); *Geodetic Science and Surveying*
- Mohamed Ouslim**, Oran, Algeria; B.S.E.E. (The University of Science Technology at Oran); *Electrical Engineering*
- Kim Allyn Palmer**, Reynoldsburg; B.A. (Michigan State University); *Music*



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**Amy Sue Park**, Maple Heights; B.S.; B.S.; *Computer and Information Science*

**\*Chulwoo Park**, Seoul, South Korea; Bach.Econ., Master Econ. (Yonsei University); *Statistics*

**John Vann Parker**, Canal Winchester; B.S.; *Anatomy*

**Georgia Maurer Peet**, Westerville; B.S.Ed.; *Environmental Biology*

**Cathy Ann Pickrel**, Centerville; B.A. (Northwestern University); *Preventive Medicine*

**Mary Elizabeth Plummer**, Columbus; B.S. (Wright State University); *Preventive Medicine*

**Carl Frank Popelar**, Worthington; B.S.Met.E.; *Engineering Mechanics*

**Brian Gibson Powers**, Columbus; B.S. (Saint Lawrence University); *Geology and Mineralogy*

**Tanxia Qu**, Wuhan, P.R.C.; B.S. (Peking University); *Nuclear Engineering*

**Carol Lee Rachfal**, Worthington; B.S.Nurs.; *Nursing*

**John Leonard Readey**, Saint Louis, MO; B.S. (The University of Missouri at St. Louis); M.S.; *Computer and Information Science*

**John Ryves Redmond**, Columbus; B.S.C.E.; *Computer and Information Science*

**Kevin M. Rodgers**, Youngstown; B.S. (Case Western Reserve University); *Computer and Information Science*

**Robin Earl Roth**, Columbus; B.S.; *Natural Resources*

**Janet Marie Runner**, Milan; B.S.N. (Bowling Green State University); *Nursing*

**Moeljadi Santoso**, Malang, Indonesia; B.S.M.E.; *Mechanical Engineering*

**Babou Modou Sarr**, Banjul, The Gambia, Gambia; Diploma (National Agricultural Technical College); *Agricultural Economics and Rural Sociology*

**Richard Joseph Scheuerle, Jr.**, Cincinnati; B.S. (University of Notre Dame); *Computer and Information Science*

**Theresa Maria Schwartz**, Columbus; B.S. (The University of Michigan); *Chemistry*

**Joyce Carol Scibilia**, Brunswick; B.S.Nurs.; *Nursing*

**Tracy Lynn Shelley**, Columbus; B.A. (Wittenberg University); *Environmental Biology*

**Rebecca Sue Shie**, Sidney; B.S.Nurs.; *Nursing*

**Parlindungan Simanjuntak**, Indonesia; B.S.C.E. (Institute of Technology); *Civil Engineering*

**Mulya Effendi Siregar**, Jakarta, Indonesia; B. E. (Bogor Agricultural University); *Agricultural Economics and Rural Sociology*

**Roesdiman Soegiarso**, Jakarta, Indonesia; B.S.C.E. (Parahyangan Catholic University); *Civil Engineering*

**Jeanne Marie Soehnlen**, Canton; B.S.Food Sc.; *Food Science and Nutrition*

**Carolyn Marie Sommerich**, Columbus; B.S.M.E. (The University of Cincinnati); *Industrial and Systems Engineering*

**Raman Venkata Srinivasan**, Madras, India; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*

**Catherine Steininger**, Kettering; B.S. (Miami University); *Nursing*

**David John Stucki**, Columbus; B.S., B.S. (Wheaton College); *Computer and Information Science*

**Marianne Sturr**, Dayton; B.S.Al.Hth.Prof.; *Anatomy*

**Emi Elisa Sugimoto**, Lancaster; B.S. (Ohio University); *Microbiology*

**Weiguo Sun**, Chengdu, Sichuan, P.R.C.; B.S. (Nanchong Teacher's College); M.S. (Jilin University); *Chemistry*

**Loretta Jane Sunday**, Reynoldsburg; B.S.Nurs.; *Nursing*

**Jonathan Nelson Tinker**, Alliance; B.S.Agr.; *Agricultural Economics and Rural Sociology*

**Lynda Carol Titterington**, Bedford; B.S.; *Pathology*

**Hong Tsai**, Wuhan, Hubei, P.R.C.; B.S.E.E.; *Electrical Engineering*

**Polly Ann Tsiliacos-Henley**, Columbus; B.S.H.E.; *Home Economics*

**Hsiaohuan Tu**, Taiwan, R.O.C.; B.A. (University of Iowa); *Home Economics*

**Janice Lynne Varda**, Dayton; B.S. (Indiana State University); *Nursing*

**Patricia De Arbeloa Villasmil**, Columbus; Medical Surgeon (University of Zulul); *Obstetrics and Gynecology*

**Frederick Werner Vook**, Syracuse, NY; B.S. (Syracuse University); *Electrical Engineering*

**Zhaohui Wang**, Chengdu, Sichuan, P.R.C.; B.Sc. (Peking University); *Physics*

**Vera Fosnot Wehrli**, Columbus; B.S.E.E. (Case Western Reserve University); *Electrical Engineering*

**Juliana Whitmore**, St. Louis, MO; B.A. (Cornell University); *Physics*

**David Andrew Wilkie**, Toronto, Ontario, Canada; D.V.M. (The University of Guelph); *Veterinary Clinical Sciences*

**Stephen William Wonderly**, Columbus; B.S. (Wright State University); *Computer and Information Science*

**Li-Fen Wu**, Taipei, Taiwan, R.O.C.; B.E. (National Taiwan University); *Computer and Information Science*

**Mingming Wu**, Qin Yang, Jing Su, P.R.C.; B.S. (Nanjing University); *Physics*

**Yuping Yang**, Westerville; B.S. (Fudan University); M.S.; *Computer and Information Science*

**Seung Jong Yi**, Seoul, South Korea; B.E. (Hanyang University); M.S. (Oregon State University); *Engineering Mechanics*

**Lawrence Go Yu**, Quezon City, Philippines; B.S.I.E. (The University of the Philippines); *Industrial and Systems Engineering*

**Andrew Charles Zeik**, St. Clairsville; B.S.E.E.; *Electrical Engineering*

**Dewei Zhu**, P.R.C.; B.Sc. (Northeast Institute of Technology); *Metallurgical Engineering*

### **Certificate of Specialist in Russian Area Studies**

**Gordon LeCompte Bolmer**, Findlay; B.A. (Ohio University); M.A.; *Slavic and East European Studies*

\*awarded posthumously

## Colleges of the Arts and Sciences

Chairman, Coordinating Council of Deans: Joan Huber

Associate Dean for Undergraduate Studies in Arts and Sciences:  
Robert M. Arkin

The Colleges of the Arts and Sciences, a federation of five colleges, includes:

College of the Arts  
College of Biological Sciences  
College of Humanities  
College of Mathematical and Physical Sciences  
College of Social and Behavioral Sciences

## College of the Arts

Dean: Donald Harris

### Bachelor of Arts

Janice Marie Adams, Fairborn  
Kevin Patrick Boyd, Cincinnati  
Pandel Lee Collaros, Steubenville  
Marcine Gail Harenberg, Mansfield  
Thomas Howard Kenison II, Columbus  
Lowell M. Lutman, Reynoldsburg  
Sarah Helen Meirson, University Heights  
Paul Allen Pepper, Carroll  
Carlos Ricardo Rivero, Guadalajara, Mexico  
Jerry C. Rockwell, Carle Place, NY  
Robin Rose Tettenhorst, Worthington  
Deborah Kay Weiss, Salem

### Bachelor of Fine Arts

Laura Louise Biddle, Columbus  
Maria Teresa Dicintio, Akron  
Michelle Althea Duhaney, Reynoldsburg  
Cynthia Ann Hassil, Knoxville, TN  
Miriam Esther Herzenstein, Cleveland  
Rebecca Helene Ley, Cambridge  
Randy Scott Mowrer, Wooster  
Yun-Dong Nam, Seoul, South Korea  
Margaret Jane Senn, Granville  
Steven Edward Williams, Wilmington

### Bachelor of Music

Christopher Allen Bergsman, Birmingham, MI  
Pandora Aey Elmore, Youngstown  
Julie Anne Hearson, Cumberland, MD  
Theodore L. Potts, Hamilton  
Jeanne Staton Snedeker, Columbus

### Bachelor of Art Education<sup>1</sup>

Melissa Jane Rowlands, Delaware

### Bachelor of Art Education<sup>2</sup>

Beth Ann Antonosanti, Columbus  
Deana Michelle England, Columbus  
Susan Pauline Genter, Brecksville  
Peter John Hering, Burton  
Elizabeth Sue Klapholz, University Heights  
Jill M. Rable, Lima  
Forest Edward Wilson, Jr., Caledonia

### Bachelor of Music Education<sup>2</sup>

Doris A. Browning Adair, Williamson, WV  
Ellen Elizabeth Edgar, Danville  
Julie Anne Hearson, Cumberland, MD  
Richard Lee Pearson, Foxboro, MA

### Bachelor of Science in Industrial Design

Mark Steven Schultz, Parma

## College of Biological Sciences

Dean: William A. Jensen

### Bachelor of Arts

David Christopher Calco, Olmsted Falls

### Bachelor of Science

Jane Ellen Blight, Delaware  
Lisa Marie Bohman, Minster  
Karen Ann Cook, Berea  
Gary William DeVoe, Cincinnati  
Phillip Dale Farnlacher, Johnstown  
Elizabeth Anne Firchau, Newark  
Grant Lafayette Franklin, Jr., Cleveland Heights  
Janet Ann Gianelos, Lyndhurst  
Ann Catherine Grimm, Columbus  
Donald Lee Hagemaster, Jr., Homewood, IL  
Bonita Matthews Hamilton, Columbus  
Donna Paige Harrison, Columbus  
Melissa Lynn Heath, St. Clairsville  
Kenneth James Helal, Ashland  
Lisa Ann Joseph, Zanesville  
Jerry Floyd Kidwell, Columbus  
Alan Steven Levy, Tarzana, CA  
Daniel Patrick Lorch, Seven Hills  
Troy William McKelvey, Edgerton

<sup>1</sup>Offered by the College of the Arts

<sup>2</sup>Offered by the College of the Arts and the College of Education

Howard Steven Nathan, Beachwood  
James Rains Nusken, Columbus  
Laura Lee Paul, Mansfield  
Amy Jo Peters, Circleville  
Jennifer Anne Schweitzer, Defiance  
Kirk Alan Staschke, New London  
Catherine Ambler Ticer, Beaver Creek  
Paula Lea Willett, Columbus

## College of Humanities

Dean: G. Micheal Riley

### Bachelor of Arts

Alyson Kay Beem, Pataskala  
Shane Patrick Carter, Sullivan  
Michelle Ann Colter, Columbus  
Walter Michael Duzzny, Youngstown  
Dana Ann Elliott, Worthington  
Donald Robert Emmerling, Westerville  
Patrick William Foley, Sagamore Hills  
Holly Anne Foster, Troy  
Karen Lynn Frank, Columbus  
Mary Louise Gallagher, Columbus  
David Everett Gilmore, Wapakoneta  
Peggy Bedell Halley, Grove City  
Jane Irene Henry, Columbus  
Nancy Lee Jansen, Columbus  
Melinda Jill Johnson, Gahanna  
Curtis Lee Kovach, Seven Hills  
Carol Alexis Krentzman, Columbus  
Cynthia M. Kristof, Marion  
Diana Lynn Kropp, Columbus  
Kimberly Dawn Landis, Columbus  
Maria Diane Magisano, Canton  
Dale Dwayne Masten, Vermilion  
William Joseph McGinnis, Columbus  
Rita Kay Price, Columbus  
Sophia Stacy Psychogios, Upper Arlington  
Scott Lee Rawdon, Granville  
Catherine Elizabeth Renspie, Columbus  
Bonnie Jean Reyher, Strafford, PA  
Mark Richard Ronckovsky, Gahanna  
Charles Glen Ross, Columbus  
Christopher Thomas Ryan, Dublin  
Joel Sams, Columbus  
Susan Messenger Tabacca, Hilliard  
Jon Derek Taylor, Lisbon  
Terese Marie Tiburzio, Columbus  
Mark Lawrence Tucker, Columbus  
Michael F. Tussey, Columbus  
Edward Walter Twynham, Port Clinton  
Neal Bradley Vickers, Dresden  
Peter John Vogel, Columbus  
Renee Sherri Wilson, Warren  
Gregory Allen Young, Hilliard  
Donna Jean Zaccini, Bellaire

## College of Mathematical and Physical Sciences

Dean: C. William Kern

### Bachelor of Arts

Tahira Aquila Abdul-Malik,  
Washington, DC  
Karen C. Carandang, Elyria  
Russell Shetler Fillmore, Cuyahoga Falls  
David Robert Pope, Longmeadow, MA  
Daniel Michael Schauer, Euclid

### Bachelor of Science

Michelle Ann Adams, Kettering  
Todd James Aebie, Port Clinton  
Meir Avitan, Columbus  
Roger Franklin Barriteau, Dayton  
Cecelia Marie Bishel, Columbus  
Stephen Joseph Champa, Worthington  
George Robert Chatfield, Grove City  
Zino Chendra, Jakarta, Indonesia  
Mike Anthony Cnider, Mansfield  
Adre L. Danish, Fairborn  
Christos Gegas, Columbus  
Kelly Lynn Gordon, Orient  
Richard Fenn Graham, Kent  
Colleen Dawn Hall, Loveland  
Jonathan Glen Hardbarger, Columbus  
Brian Frank Hayes, Akron  
Michael James Kirschenbaum, Marysville  
Kyle Bryan Klingler, Kenton  
Demetrios Xenophon Koulas, Larnaca,  
Cyprus  
Daniel Ray Lane, Marietta  
Joseph Louis Layko, Raleigh, NC  
Douglas Eugene Lyle, Columbus  
Pamela Marie McDowell, Spottsville, KY  
Alice Laurene Payne, Willoughby  
Michael Ray Phelps, Troy  
Willis Martin Ray III, Springfield  
Brian David Rehard, Perrysburg  
David Michael Roush, Gahanna  
Nancy M. Smathers, Kittanning, PA  
Douglas Brent Swayne, Westerville

## College of Social and Behavioral Sciences

Dean: Joan Huber

### Bachelor of Arts

Michelle Marie Abbott, Cuyahoga Falls  
Timothy Robert Adams, Lucas  
Dara Lynn Albanese, Shadyside  
Mark Douglas Albright, Bucyrus  
Terry Derrell Anderson, Whitehall  
Colleen Caldwell Atkinson, Sandusky  
M. Stephanie Auer, Bay Village  
Steven Lee August, Cleveland

John Patrick Bailey, Medina  
Bruno Baldo, Westerville  
Debra Kaye Barnes, Lima  
Rebecca Sue Barr, Worthington  
Alvaro Gonzalo Barriga, Columbus  
Victor Anthony Bartel, Jr., Columbus  
Michael Charles Beebe, Plymouth  
Deborah Ann Belskie, Worthington  
Bernard Allen Benetke, Columbus  
Leif Phillip Bickel, Columbus  
Darrell Lawrence Browning, Cincinnati  
Kim Eileen Bulinski, Broadview Heights  
Jennifer Lynn Burnham, Berlin Heights  
Beverly Ann Caley, Ashland  
Carl Russell Canestraro, Urbana  
Julie Ann Cawley, Urbana  
Anna Marie Chase, Atlanta, GA  
Tamala Roxanne Clark, Toledo  
Charles Francis Coen, Annandale, VA  
Lynda Michelle Cohen, Cincinnati  
Rhonda Ranae Cole, Springfield  
Carolyn Anne Conlon, Columbus  
Darrell Paul Cousino, Sylvania  
Richard Douglas Cummings, Carrollton  
Gregory Keith DeLong, Toledo  
Jonathan Andrew Deshler, Columbus  
James Alan Deskins, Westerville  
Robert Frederick Deuber, Barberton  
Susan Mary Dieckman, Hayward, WI  
Michael Duane Dillon, Cincinnati  
David Edgar Dixon, Mt. Dora, FL  
Karmen Michelle Elliott, Marion  
Leonard Stanley Erskine, Jr., Columbus  
Newman John Evans, Tipp City  
Scott Douglas Fehr, St. Clairsville  
Kyra Marie Fleming, Youngstown  
Daniel Edward Ford, Chillicothe  
Suzanne Marie Francati, Bay Village  
Ronald Anthony Fresco, Columbus  
Michela Diane Gray, Beaver Creek  
Kathleen Lynn Greene, Westerville  
Maria Angela Griffith, Lima  
Melissa June Gutridge, Newark  
Jennifer Ruth Haenicke, Kalamazoo, MI  
John Benton Hall, Columbus  
Nathan Kurt Hall, Newcomerstown  
Linda L. Harrison, London  
Lorri Ruth Haskell, Auburn, ME  
Todd Ellis Hassinger, Ashland  
James Andrew Hillmuth, Vermilion  
Jon Christopher Hockman,  
Upper Arlington  
Margaret Katherine Holtslander, Sidney  
Steven M. Hostetter, Hamburg, NY  
Scott Edward Hoy, Grove City  
Cathy Ann Jacobs, Columbus  
Cynthia Ann Jeffrey, Chesterland  
Mark James Jeffreys, Gahanna  
Lars Christopher Johnson, Worthington  
Tracey Anne Judy, Dover  
Rhonda Sue Kamins, Pepper Pike  
Michael Aaron Kane, Shaker Heights  
Douglas John Kay, Erie, PA  
Catherine Jean Kessler, Galloway  
Michael Sotire Kididis, Columbus  
Soonhyong Kim, Columbus  
Steven Ross Klein, Cleveland Heights  
Lawrence Alan Kohn, Beachwood  
Kimberly Sue Kolacz, Newton Falls

Christopher Kotting, Chagrin Falls  
Robert Swarup Kunchal, Aurora  
Maureen Ann Lach, New Castle, PA  
Michael James Lane, Kirtland  
David Leslie LaRosa, Columbus  
Ann Ridgway Ledman, Lancaster  
Gui-Ah Jennie Lee, Worthington  
John Curtis LeVally, Grove City  
Florence Elisabeth Lewis, Columbus  
Patrick Lachlan Livingston, West Palm  
Beach, FL  
Richard David Lloyd, Columbus  
Deborah Joy Loveman, Cleveland  
Roger Mason, Columbus  
Richard Jeffrey Mathews, Medina  
David Wayne McCoy, Columbus  
Michael Jay McCreight, Westerville  
Julie Ann McQuaide, Worthington  
Jeffrey Lynn Mengerink, Napoleon  
Nancy Ann Messaros, Elyria  
Liz Fazela Mohammed, Columbus  
Jennifer Ann Moody, Centerville  
April L. Morris, Columbus  
Andrea Jeanne Mustard, Columbus  
Nan April Navarro, Worthington  
Elizabeth J. Norris, Massillon  
Patricia Anne O'Carroll, Columbus  
Tom Robert Palsgrove, Canal Winchester  
James J. Pardi II, Columbus  
Daniel Allen Pearce, Springfield  
Ted Carlton Phillips, Columbus  
Jahnee Ranie Prince, Centerville  
Mia Angela Prince, Columbus  
Lisa Ann Purvis, Hamilton  
Nicole Rencher, Groveport  
Matthew Charles Roberts, Columbus  
Cynthia Ann Rundag, Columbus  
Dianna Lynn Russell, Columbus  
Michael Roger Serra, Chardon  
Charles Cyril Shuey, Massillon  
Andrew Keith Smith, Norwalk  
Steven Scott Smith, Mansfield  
Thomas Turner Smith, Columbus  
John Michael Snider, Lima  
Tara Lynn Steepleton, Alliance  
Kimberly Marie Stetz, Medina  
Fred W. Strahorn, Cincinnati  
John Stringer, Lakewood  
Diane Marie Sullivan, Hicksville, NY  
Holly Chrystal Sutto, Upper Arlington  
Kathy Loren Tarrier, Columbus  
Timothy Newton Taylor, Columbus  
Jacqueline Tonia Tregellis, Portsmouth,  
England  
Amy Elizabeth Triska, Cleveland  
Steven Allen Upp, Swanton  
Vincent Lucas Vaccaro, Worthington  
Neal Bradley Vickers, Dresden  
Kimberly Anne Villacres, Allentown, PA  
Elizabeth Ann Voisard, Columbus  
Suzanne Wagner, Adamsville  
Vera Clarice Walker, Columbus  
Hilary Beth Wallach, Columbus  
Richard Alan Williams, Lima  
G. Eric Woodland, Columbus  
Richard Harris Wurst, Morristown, NJ  
Cynthia Ann Zeck, Columbus  
Mark Daniel Zura, Fremont

## Bachelor of Science

Angela Kay Chesbrough, Columbus  
James Clinton Copeland, Jr., Ashland  
Ellen Phillips Culman, Mansfield  
Magda Farid Mansour, Columbus  
Douglas D. Meyer, Columbus  
Wayne Alan Nicol, Homeworth  
Michael Douglas Parr, Springfield  
Amy Jo Phillips, Lancaster  
David William Pond, Dublin  
Lee Anthony Regensburger, Milford  
Michael Roger Serra, Chardon  
Curt Bernard Shaffner, West Chester  
Laura M. Wiese, Columbus

## School of Journalism

### Bachelor of Arts in Journalism

Dara Lynn Albanese, Shadyside  
Jodie Lynn Arnett, Monroe  
Darrell Lawrence Browning, Cincinnati  
Katherine Ann Burnes, Columbus  
John Frederick Canaday, Columbus  
Anthony Donald Canilliere, Brecksville  
Carol Lynn Crutchfield, Centerville  
Catherine Jo Cullinan, Columbus  
Holly Tine Cunningham, Toledo  
Molly Jeanne Dempsey, Columbus  
Scott Martin Dring, Centerville  
Thomas John Duggan, Maumee  
Heidi Gunther Edens, Reynoldsburg  
Christine Kay Elsbree, Akron  
Kimberly Sue Fisher, Tiffin  
Jeffrey Carl Florian, Toledo  
Darrel Roger Geis, Bradford, PA  
Thomas Young Gibson IV, Lucasville  
Patricia Ann Gilmore, Kettering  
Leanne Kathryn Gregory, Gahanna  
David Scott Hagely, Upper Arlington  
Tracy Elizabeth Heldridge, Akron  
Leah Kay Hemming, Grove City  
Lisa M. Herhold, Columbus  
John Scott Hoskins, Heath  
Kathryn Marie Hotchkiss, Salem  
John William Keim, Lakewood  
Cynthia Ann LeRose, Columbus  
Marie Elaine Luchansky, West Chester  
Keith McCallum, Columbus  
Traci Kathleen Mitchell, Mansfield  
David Michael Moore, Perrysburg  
Michael Hugh Murphy, Worthington  
Carrie Jane Niese, Marion  
James Stern Oliphant, Jr.,  
Upper Arlington  
Ellen Kay Ousley, Elida  
Todd Lee Overmyer, Fremont  
Lori Leah Pagel, Newark  
Lynn Mary Parkavich, Hamilton  
Square, NJ  
Sabina Rahman, Upper Arlington  
Kyle Scott Reiff, Springfield  
Mark Leland Rickel, Ashland  
Resa Ann Robinson, Quaker City  
Jeffrey S. Roediger, Springfield  
Michelle Ann Royal, Defiance

Steven Eugene Runyon, Rio Grande  
Brian Alan Scott, Medina  
Brian Fenton Stith, Indianapolis, IN  
Cherita E. Stout, Hillsboro  
Michael Jacob Studer, New Washington  
Catherine Lynn Sturgeon, West Chester  
Bridgette Ann Tate, Columbus  
Kevin Eugene Theessen, Mansfield  
Bonnie Lynn Tumulty, Worthington  
David Brooks Watkins, Columbus  
Julie Marie Whiteley, West Chester  
Tracy Diann Williamson, Delaware  
Christopher Paul Woltman, Columbus  
Kimberly Kaye Wright, Reynoldsburg  
Jennifer Wagner York, Centerville

## College of Agriculture

Dean: Frederick E. Hutchinson

### Bachelor of Science in Agriculture

Simon Aivodji, Niamey, Republic of  
Niger  
Linda Marie Barger, Springfield  
Steven Allen Bauer, Willard  
Bruce Leland Brainard, Medina  
Jeffrey Nick Brookhart, Tipp City  
Benjamin Marvin Carpenter, Glenford  
Matthew James Cessna, Cygnet  
James Allen Chambers, Mansfield  
Ann M. Champney, Columbus  
Ann Marie Chanon, Maple Heights  
G. Joseph Colucci, Ashtabula  
Christopher John Corcoran, Chillicothe  
Joseph Lee Daubenmier, Mt. Vernon  
Michael Richard Daye, Wooster  
Daniel Alan Dickerhoof, Paris  
David Norbert Duling, Toledo  
Tony Barton Dyer, Harrod  
Donald Allen Evers, St. Henry  
Amy Lynn Fehrman, Dayton  
Jeffrey Alan Flenniken, Alliance  
Bryan Jeffrey Frisch, Avon Lake  
Brian Wayne Garrett, Winchester  
Michael Andrew Geiger, Creston  
Karen Lea Goltz, Hilliard  
Elaine Mary Grassbaugh, London  
Don David Hedges, Radnor  
Monty Dale Heiby, Celina  
Gregory Scott Heisler, Norwalk  
Matthew Todd Hoffman, Richwood  
Robert P. Huerkamp, Cincinnati  
Steven Wade Huffman, Columbus  
William Keith Humbert, Jr., Fayette  
Cheryl Lynn Hutchins, Canal Winchester  
Christopher Eugene Keller, Somerville  
David J. Koch, Columbus Grove  
Jeffrey Todd Leeman, Brewster  
Michael Wayne Lehman, Grover Hill  
James Hans Lenzler, Jr., Grafton  
Souley Mahamadou, Niamey, Republic of  
Niger  
Mary Elizabeth Mahne, Columbus  
Craig Matthew Marshall, Columbus  
Anthony Joseph Martin, Columbus  
Michael Joseph McBride, Zanesville

Jamie Delores McKenzie, Wheelersburg  
James Ernest McLaughlin, Mt. Vernon  
Vincent Edward Metzcar, Greenville  
Mary Victoria Millhorn, Westerville  
William Harold Moellenkamp,  
Wapakoneta  
Richard Martin Morgan, Waynesville  
David James Pease, Maumee  
Holly Ann Perkins, Columbus  
Richard Martin Petersen, Oak Harbor  
Frank W. Pharazyn, Jr., Plain City  
Laura Marie Pisciotto, Columbus  
Cynthia Ann Pomeroy, Columbus  
Susan Michele Potts, Sunbury  
Kristina Marie Richards, Gahanna  
Lynn M. Riepenhoff, Lima  
Amy Jo Roberts, Malta  
Timothy Alan Sarko, Cleveland  
Mark Aaron Sayers, Grafton  
Marianne Scheiderer, Marysville  
Michael Carl Schneider, Chagrin Falls  
Mary Elizabeth Smolko-Will, Zanesville  
Sherri Ellen Speziale, Columbus  
Ronald Russell Strader, Springfield  
Steven Joseph Toma, Richfield  
Edward Joseph Tuhela, Solon  
William Richard VanNostran, Columbus  
Michele Renee Vogt, Hamilton  
Sandra Ann Wallace, Burgoon  
Alex M. Woods, Whitehouse

### Bachelor of Science in Food Science

Patricia A. Zullo, North Olmsted

## School of Natural Resources

### Bachelor of Science in Natural Resources

Jennifer Lynn Cofer, Monclova  
Jay Michael DeLong, Liverpool, England  
Craig Charles Falkner, Canton  
Wendy C. Ostlund, Pittsburgh, PA  
Susan Paige Rouse, Fort Walton  
Beach, FL  
Kristie Marie Simpson, Springfield  
Stephanie Elaine Wilburn, Ashville  
Gregory Franklin Yates, Columbus

## Agricultural Technical Institute — Wooster

### Associate in Applied Science

Michael John Babet, Avon Lake  
Scott Alan Beck, Perrysville  
Thomas Ronald Bender, Loudonville  
Karianne Marie Cermak, Dillonville  
Ronald Joseph Dues, St. Henry  
Evelyn Ruth Eisenbraun, Struthers  
Bradley David Frantz, New Holland  
Brett Joseph Gough, Barberton

Lydia Greer Harlamert, Wooster  
 Melissa Sue Horman, Milan  
 Jeffrey William Hornsby, Cincinnati  
 Gregory Martin Kehres, New Washington  
 Jeffrey Alan Lefever, Polk  
 Michael Patrick Maloney, Wickliffe  
 Jacqueline Gail Painter, Charleston, WV  
 Jamey Edward Rauch, Little Hocking  
 Dick Christian Reichenbach, Wooster  
 Lynn Marie Robinette, Wooster  
 Anthony Robert Stopar, Akron  
 Leann M. Tussing, Findlay  
 Joseph Patrick Zusack, St. Clairsville

## College of Business

Dean: H. Justin Davidson

### Bachelor of Science in Business Administration

Robert A. Ackerman, Worthington  
 Daniel Paul Ackert, Westerville  
 Raymond Francis Albertini, Olmsted Township  
 Debra Jean Allen, Garrison, KY  
 James Douglas Allen, Worthington  
 Michael Lee Andrews, Springfield  
 Tomoyuki Arai, Fairfax, VA  
 Mustafa Arin, Istanbul, Turkey  
 Gail Marie Armstrong, Hoosick Falls, NY  
 Jay E. Azbell, Lancaster  
 David Michael Barnhart, Brook Park  
 Lisa Marie Batman, Cuyahoga Falls  
 Joseph Eric Beale, Columbus  
 David Eric Bedillion, Vermilion  
 Jonathan C. Bell, Columbus  
 Bradley James Bennett, Pataskala  
 Errol L. Berman, Cleveland Heights  
 Dieter Heinz Bertulies, Middleburg Heights  
 John Andrew Bettini, Clifton, VA  
 Bradley Norman Betts, Dublin  
 David Allen Bible, Clyde  
 Joseph Gerard Bidleman, Cincinnati  
 L. Mark Billeaud, Edwardsville, IL  
 Edgar Carl Bleick III, Cleveland  
 Lori Sue Bline, Newark  
 Douglas Edward Boes, Findlay  
 Frederick Arnold Borden, Columbus  
 Duane Douglas Borgelt, Shelby  
 Gerald Robert Brown, Columbus  
 Paul Joseph Bruggeman, Dayton  
 Douglas Edward Buchanan, Lima  
 Thomas Raymond Bugno, Columbus  
 James L. Bumbledare, Hilliard  
 James Fred Carlson, Columbus  
 Bryan Alan Caudill, Utica  
 Thomas Michael Cinadr, Brecksville  
 Jeffery Franklin Clark, Portsmouth  
 Ronda Lynette Clement-Woods, Mansfield  
 Maureen Theresa Clifford, Columbus  
 Joseph Hugh Coleman, Shelby  
 Charles Raymond Coogle, Columbus  
 J. David Cooke, Jr., Marion  
 James Thomas Crookston, Stow  
 Lynda M. Crossan, Worthington

Jeffrey Scott Crumrine, Newark  
 Kevin Charles Currier, Middletown  
 John Michael Curry, Galloway  
 Jacqueline S. Custer, Columbus  
 Janine Michelle Dabney, Youngstown  
 Robert Charles D'Amico, Wayne, NJ  
 Barbara Leigh Davis, Cleveland  
 R. Mark Davis, Worthington  
 Robert Leroy Davis, Columbus  
 Denise Michelle Deal, New Philadelphia  
 Jami Lynn DeBoid, Wilmington  
 Karen Jane Dishong, Deshler  
 Eric Duane Dozier, Springfield  
 Carl Patrick Easton, DeGraff  
 Trent E. Edwards, Plain City  
 Craig Patrick Engle, Reynoldsburg  
 Christopher John Evans, Columbus  
 Stephanie Rose Evans, Toledo  
 Malinda A. Everett, Pickerington  
 Joan Maureen Fernandez, Columbus  
 Jeffrey Ray Festog, Galloway  
 Robert Joseph Fischietto, Bedford  
 Julie A. Fisher, Prospect  
 Andrew R. Fodder, Columbus  
 Evan D. Forbes, South Euclid  
 Suzette Marie Foster, Bellaire  
 Earl Bruce Fralick, Niles  
 Mike E. Francis, New Carlisle  
 Julie Lynn Frasher, Columbus  
 Amy Jo Frontz, Bellville  
 Kristin Ann Garrett, Mansfield  
 Eric L. Gebler, Chagrin Falls  
 Bradley Joseph Gilbert, Strongsville  
 William James Giunco, Jr., Manassquan, NJ  
 Kimberly A. Gnau, Springfield  
 Greg Martin Goehring, Worthington  
 Bradley Jasper Granger, Marion  
 Stephen Paul Gray, Celina  
 Lisa Christine Griffith, Troy  
 Mark Joseph Guanciale, Newark  
 Jerome Othello Guilford, Jr., Toledo  
 David Michael Haines, Worthington  
 Reginald R. Hamilton, Toledo  
 Brian Jeffrey Hamrock, Rocky River  
 Michael Leroy Hardin, Jr., Gahanna  
 Peter Karl Haring, Mansfield  
 Bradley William Harrison, Chicago, IL  
 James Roy Hastings, Galloway  
 Thomas Joel Hayward, Cincinnati  
 Brian Lynn Henry, Columbus  
 Kenneth Martin Hensel, Powell  
 Stacy Anne Hickenbottom, Mt. Pleasant  
 Rodney Bonn Hickman, Springfield  
 Timothy Allan Holkenborg, Sandusky  
 Bradley D. Holman, Skokie, IL  
 Margaret Katherine Holtlander, Sidney  
 Gerald Dean Hootman, Jr., New Philadelphia  
 Ronald James Hudak, Maple Heights  
 Kelley L. Hughes, Columbus  
 Susan Lynne Hughes, Columbus  
 Craig Allan Hull, Columbus  
 Gary Ray Hunt, Columbus  
 William E. Hustad, Centerville  
 Thomas W. Irelan, Powell  
 Jane Elizabeth Irwin, Marysville  
 Georgia Lynn Jackson, Hilliard  
 Karl F. Jaeger, Chagrin Falls

Andrew Corland James, Columbus  
 Janice Lee Jeffries, Chagrin Falls  
 Steven Gregory Jeray, Columbus  
 Jamie Robert Jerles, Columbus  
 Siong Thin Jie, Jakarta, Indonesia  
 Victor Manuel Jimenez, Marysville  
 Thomas Martin Johnson, Rittman  
 Lawrence Thomas Jupp, Mentor  
 Matthew John Kaiser, Waterville  
 Michael David Kamer, Columbus  
 Keven K. Kenison, Upper Arlington  
 Joseph Robert Keslar, Wooster  
 Jenny Rebecca Key, Columbus  
 Edward Vincent Kiger, Bogota, Colombia  
 Shaun James King, Columbus  
 Alan Sean Kirschner, Cincinnati  
 John Michael Klausning, Delphos  
 Susan Diane Klingel, Cardington  
 Kelly Ann Knapp, Suffield  
 Jeffrey Albert Knightstep, Columbus  
 Beth A. Kosteka, Mentor  
 William N. Kulich, Jr., Massillon  
 Kevin Karl Kutler, Frostburg, MD  
 Thomas Edward Lah, Parma  
 Lois Lee, Cleveland  
 Kevin Neil Levine, South Euclid  
 Michael W. Lewis, Columbus  
 Michele Mazon Lincimore, Columbus  
 Darius Lamarr Longmire, Maple Heights  
 Bradley Ford Loomis, Elyria  
 John Philip Lopez, Dayton  
 Lamar Vincent Love, Columbus  
 Thomas Evan Lowenkamp, Richmond Heights  
 Mark Jeffrey Ludwig, Lake Zurich, IL  
 Kenneth Bradley Luke, Centerville  
 Dan E. Lunde, Smithtown, NY  
 Michael Nolan Madden, Rosedale  
 William Frank Makowski, Parma  
 Christine A. Maltinsky, Minster  
 Jonathan Lesley Marcus, Berkeley Heights, NJ  
 Philip Marsh, Columbus  
 William W. Marshall III, Lorain  
 Robert John Martino, Novelty  
 Tammy Jo Meisener, Salem  
 Dina Marie Melchiorre, Columbus  
 Todd Alan Metcalf, Westerville  
 Phillip G. Meyer, Dayton  
 Peter Edward Millette, Westchester  
 Carl Joseph Miragliotta, Stony Brook, NY  
 Anita M. Moore, Parma Heights  
 Keith Douglas Moore, Columbus  
 Lee Alan Moore, Westerville  
 Michael Wilson Morgan, Lima  
 Philip James Mosser, Fremont  
 Christopher Scott Neal, Cincinnati  
 Ross Bernard Nellesen, Springfield  
 Kenneth Ray Null, Jr., London  
 Thomas C. Orr, Columbus  
 Leonard E. Orzech, Strongsville  
 Shawn Vincent Osborne, Columbus  
 Laura Ann Pelehach, Huron  
 William John Pelts, West Jefferson  
 David Jackson Phillips, Kent  
 Linda Neikirk Piatt, Columbus  
 John Anthony Piccininni, Columbus  
 Timothy Floyd Poe, Columbus

Supaluck Poosaguansith, Choburi,  
Thailand

Yuvaree Poosaguansith, Choburi,  
Thailand

Andrew Portier, Columbus

Michael Wesley Predina, Chagrin Falls

David A. Prosser, Sandusky

Thomas Joseph Purcell, Columbus

George Alan Radcliff, Galloway

Prabha Ramani, Columbus

Maheer Abdel Rasul, Ashtabula

T. Basil Rau, Worthington

Lisa Marie Regrut, Columbus

Joseph W. Reilman, Cincinnati

Brian Dean Rice, Bloomdale

Natalie Diane Richmond,

New Philadelphia

Craig Stephen Richter, Russell

John J. Rider, Centerville

Kathleen Teresa Rietschlin, Crestline

Mark E. Ritchey, Dublin

David Christopher Roach,

Fort Wayne, IN

Christopher Ronald Roberts, Westerville

Carey Ann Roebuck, Columbus

Donna Lynn Romell, Berlin Heights

Ralph Chris Rondon, Galion

Lisa Marie Root, Lima

Guy C. Rosa, Maple Heights

Douglas Richard Rose, Euclid

Timothy Leroy Rosenberg, Mentor

Jeffrey Kent Ross, Waynesville

Ann Throckmorton Rotondo, Columbus

John Charles Ryan, Plainfield, IL

Douglas Stewart Saxe, Groveport

Anthony Joseph Saylor, Lima

Jeffrey Lee Schade, Youngstown

William R. Schenk, Vickery

Lori Anne Schneider, Worthington

Richard Lee Schnoor, Columbus

Carl Patrick Schnorf, Sylvania

Ronald Wayne Scott, Jr., Huron

Steven Secord, Lockport, NY

Stephen Charles Sedam, Columbus

David Michael Sewickley, Youngstown

Glen Michael Sharrer, Lexington

John Timothy Shave, Rocky River

Brian Thomas Shea, Newark

Pamela Lynne Shugarts, Newark

Darin Scott Simpson, Baltimore

Jana Lynn Simpson, Galion

Randy Allen Sine, New Carlisle

Norman Dean Sinreich, Rocky River

Andrew J. Song, Columbus

Patricia L. Spak, Columbus

Rodney Daniel Sparks, Galion

Richard Jay Strickling, Woodfield

Sukiman Suherman, Medan, Indonesia

Hasim Sukanto, Jakarta-Pusat, Indonesia

Sean Patrick Sullivan, Youngstown

Ian Mario Superville, Gahanna

Scott J. Takacs, Fairborn

Tow-EE Tan, Singapore, Singapore

Stephanie Timberlake, Reynoldsburg

Scott Earl Tipton, Amelia

Kartini Tjuatja, Medan, Indonesia

Dianne Mae Tracey, Howard

Colin Trueman, Amlin

Denise Marie Vermillion, Columbus

Jennifer Lynn Weaver, Westerville

Kevin Christopher Welch, Upper  
Arlington

Kevin Lee Wibbeler, New Knoxville

Brandon Scott Wigman, Cincinnati

John Raymond Williams, Delaware

Loren Russell Williams, Sylvania

William Howard Wintrow, Vandalia

Donna Lynne Wiseman, London

Richard Charles Wolfe, Pickerington

Kimberly Sue Woodward, Findlay

David Allen Wright, Youngstown

Sue-Yuan Lin Yeh, Houston, TX

Mark Michael Yonchak, Chesterland

Connie J. Zolciak, Waterville

## College of Dentistry

Dean: William R. Wallace

## Certificate of Graduate Dental Hygienist

Kim Denise Kennedy, Cleveland

## College of Education

Dean: Donald P. Anderson

## Bachelor of Science in Education

Andrew Donald Altenburger, Ottoville

Lynne Marie Althoff, Columbus

Linda Joyce Ashworth, St. Clairsville

Diane Elizabeth Au, Reynoldsburg

Ann Davis Barnes, Gahanna

Douglas Gerald Beak, Mansfield

Wendy Rae Beerbower, Columbus

Joyce Lynn Belden, Lima

Mark Samuel Benson, Columbus

Timothy Lynn Berridge, Columbus

David Scott Binau, Loudonville

Karen Ann Blair, Newbury

Shauna Marie Blue, Dublin

Ellis Edward Booth, Ravenswood, WV

Janeen Marie Calame, Medina

David James Campbell, Berea

Joseph Michael Canestrano, Steubenville

Lori Marie Capretta, Worthington

Kristy Elizabeth Casey, Lima

Steven Lee Childers, Columbus

Kevin Paul Clark, Ashland

Joy Anna Colburn, Wooster

Kevin Ann Cook, Columbus

Robin Lin Cook, Lima

Kathleen Lee Crowley, Powell

William James Curry, Worthington

Rodney Alan Daugherty, Mansfield

Sondra Sue Davis, Lima

Cynthia Ann Dean, LaRue

John Michael Denton, Galena

Lisa Jay Dickinson, Mt. Victory

Margaret Macrina Dorrian, Columbus

Laura Elaine Draper, North Canton

John Brooks Duncan, Columbus

Scott Allen Evans, Columbus

Manny Eugene Flowers, Utica

Michelle Renee Foltz, Vaughnsville

Anthony Paul Giacalone, Naperville

Jacqueline Ann Giles, North Fairfield

Lucille E. Gill-Lafferty, Crestline

Joseph Charles Ginter, St. Marys

Karen Louise Goetz, Worthington

Julie Ann Griffith, Columbus

Janelle Dawn Hadsell, Lima

Abby Lynn Hall, Germantown

Kenny Dale Harper, Worthington

Toree Lewis Hefner, Lima

Dianne Kathleen Herod, Lima

Phyllis M. Herzog, Columbus

Matthew Richard Hexter, Bay Village

Christine Marie Hines, Lancaster

Amy Suzanne Hinterschied, Columbus

Dianne Irene Hoehn, Lima

Carl Roy Hopple, Columbus

Mary Hunsinger, Lexington

Susan Marie Kirchner, Columbus

Robert Andrew Klinker, Waverly

Ellen Marie Laubis, Kenton

Michael Joseph Laurent, Lima

Teresa A. Laurita, Ada

Todd Wishart Lazenby, Marysville

Michelle Louise Levin, Grove City

Allan Jason Levine, Lakewood, NJ

Michelle Renee Lokai, Springfield

Cheryl Lynn Louis, Lyndhurst

Michael Allen Martin, Columbus

David Dean McBride, Mansfield

Thomas Patrick McBride, Cambridge

Kathleen Mary McGonagle, Lancaster

Gregg Allen McKee, Forest

Traci Lynn McQuillen, Lexington

Terry D. Metz, Marion

Sarah Anne Metzger, Lima

Daryl Logan Miller, Columbus

Regan Fair Miller, Big Prairie

Tina Marie Miller, Lima

George Albert Moroschan, Lakewood

Christine Paige Neff, Columbus

Curtis Ray New, Groveport

Tommy Joe Newson, Columbus

Maxwell Joseph Nichols, Lima

Link Alan Noykos, New Hampshire

Rebecca Ann O'Connors, West Jefferson

Kenn Lee Oglesbee, Columbus

Paul Anthony Oravetz, Jr., Elyria

Kimberly Kay Otermat, Fremont

David John Palguta, Bellbrook

Brian Andrew Patten, Newhall, CA

Giuseppina Pizzuti, Worthington

Donald Joseph Powers, East Aurora

Kim Ann Prochaska, Cleveland

Kim Edward Ray, Troy

Garrick Martin Richards, Columbus

Kimberly Kay Rinehart, Wapakoneta

Larry Allen Rianer, Bucyrus

Timothy James Roller, Shelby

William Darr Routzong, Worthington

Joyce Marie Schulze, Anna

Linda D. Schumacher, Westerville

Patrick Edward Schumer, Canfield

Stuart Andrew Sherck, Dayton

Nancie Catherine Shillington, Columbus

James Crayton Shumaker, Dresden  
 Amy Elizabeth Simpson, Ashland  
 Paul A. Stanca, Columbus  
 Diane Marie Stavole, Parma Heights  
 Nancy Ann Stecklein, Bexley  
 John Davidson Stock, Lewisburg  
 Melissa Sue Stoneburner, Pataskala  
 Shelley Ann Straits, Millersburg  
 Deborah Ann Sumpter, Clairton, PA  
 Mary B. Swank, Newark  
 Rebecca Sue Swason, Columbus  
 Lisa Marie Truitt, Lima  
 Michaela Christine Von Ville, Delaware  
 Dana Joy Weiss, Moreland Hills  
 Rebecca Sue Wetzig, Van Wert  
 Tedd Eric Wiley, Canfield  
 Michael Alan Williams, Shiloh  
 Janet C. Wyant, Elida  
 Melinda Renee Young, Cincinnati

**Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.**

## College of Engineering

Dean: Donald D. Glower

### Bachelor of Science in Aeronautical and Astronautical Engineering

Ronald John Bayless, Fremont  
 Gregg Kelly Fenton, Columbus  
 Dewayne Charles Kendall, Dayton  
 Robyn Lynn Reuss, Ashland  
 Lawrence Christopher Rogers, Fairborn  
 Kevin Allen Stockard, Toledo

### Bachelor of Science in Agricultural Engineering

Nancy Lee Anderson, Lakewood  
 Troy Lee Brunn, Springfield  
 Eric Willson Clausen, Wauseon  
 Karen Martha Grenus, Fairlawn

### Bachelor of Science in Aviation

Barry Alan Gloth, Erie, PA  
 Daniel Martin Johnson, Fostoria  
 Michael James Rosing, Ingleside, IL  
 Dana Jean Sessanna, Parma Heights  
 Andrew Edward Shillington, Columbus  
 Kenneth Randall Souder, Columbus  
 Greg W. Thorne, Mentor

### Bachelor of Science in Ceramic Engineering

William Eldon Endres, Centerville  
 Marla Jane Gilkison, Columbus  
 Joel Coburn Preston, Radnor

### Bachelor of Science in Chemical Engineering

David John Bartolec, West Lafayette  
 Stuart Franklin Doty, Findlay  
 Mario Anthony Formica, Cleveland  
 Dimitrios Slioupkidis, Thessaloniki, Greece  
 Michele Rae Young, Westerville

### Bachelor of Science in Civil Engineering

Joseph Anthony Arezone, Cleveland  
 Michael William Bender, Rochester, NY  
 Steve Robert Burger, Willoughby Hills  
 Virginia Lee Clarke, Avon Lake  
 Fawaz Hamoui, Damascus, Syria  
 Leslie Hansen, Fort Lauderdale, FL  
 John Robert Hirschfeld, St. Marys  
 David Gerard Kallmeyer, Cincinnati  
 Matthew John Lawler, North Royalton  
 Poh Kong Lim, Muar, Johor, Malaysia  
 John Clayton Lind, Jr., Columbus  
 John Edwin Lust, Sycamore  
 Thomas Richard Miller, Columbus  
 Luis Fernando Mondragon, Medellin, Colombia  
 Mark Joseph Moore, Hartville  
 Todd Douglas Moore, Jewett  
 Mark Gerard Notarberardino, Sheffield Lake  
 Kathleen Rae Parsons, Lyndhurst  
 Arthur William Rentzsch, Worthington  
 Teresa Jean Ricca, Columbus  
 James Arthur Stanley, Circleville  
 Brad M. Thomas, Maumee  
 Richard Joseph Walsh, South Euclid  
 Erik James Wiberg, Hampden, ME  
 Mun Loy Wui, Kuala Lumpur, Malaysia  
 Teresa Lynn Zawisa, Columbus

### Bachelor of Science in Computer and Information Science

William Scott Curtis, Silver Lake  
 Gwendolyn Elizabeth Davis, East Cleveland  
 Najila Emadi, Columbus  
 Samuel Robert-Taft Maxwell, Columbus  
 Suryanus Neos, Ujung Pandang, Indonesia  
 Khe Seng Ong, Surabaya, Indonesia  
 Christopher James Roda, Willoughby  
 Tamara Lynn Schilling, Galion  
 Robert Eric Slawson, Worthington  
 Joseph Benjamin Stimpfl, Peninsula  
 Jay Albert Towsele, Hilliard  
 Michael L. Zachman, Marion

### Bachelor of Science in Electrical Engineering

Mohamed Ayid Al-Majali, Karak, Jordan  
 James Richard Ambrose, Euclid  
 Matthew Timothy Bard, York, PA  
 Brian James Barrett, Columbus

Jeffrey Eugene Bauman, Westerville  
 Garry Lee Brannon, Centerville  
 Marc Carlo Carbetta, Mansfield  
 Lee Allen Clark, Napoleon  
 Thomas Bruce DeVore, Westerville  
 Hung Duc Do, Columbus  
 David Paul Duscheid, Worthington  
 Joyce Ann Fichtner, Hartville  
 Joseph Theodore Heaphey, Granville  
 Larry Eugene Heisler, Tamaqua, PA  
 Greg Allen Katrenick, Uniontown  
 Ronald John Koch, Akron  
 Jeffrey Alan Lauro, Akron  
 Anthony Charles Lensing, Columbus  
 Patrick John Limpach, Ottawa  
 Douglas Edward Loyer, Worthington  
 Kerry George Maligas, Warren  
 Steven Edward Masonbrink, Marysville  
 Daniel Laurance May, Granville  
 Glenn Patrick McCarthy, Columbus  
 Brian Joseph Miller, Middleburg Heights  
 Christopher Aaron Miller, Columbus  
 Matthew Allan Moon, Columbus  
 Mark James Morscher, Columbus  
 Jonathan M. Naft, South Euclid  
 Patrick Joseph O'Shaughnessy, Warren  
 James H. Oxley, Columbus  
 David Scott Persinger, Canton  
 Dennis Joseph Peterlin, Willoughby Hills  
 Joyce Marie Ritzman, Norton  
 Hernan Alex Rojas, La Paz, Bolivia  
 Stephen Glenn Rudie, Chillicothe  
 Satoshi Sakurai, Worthington  
 Michael Allen Schy, Montvale, NJ  
 Tania Denise Streun, Van Der Bijl Park, South Africa  
 Timothy Lee Sustersic, Brecksville  
 Chuen-Kit Tan, Hong Kong  
 Anthony Robert Vasile, Jr., Rochester, NY  
 Nhan Huu Vuong, France  
 Scott Joseph Williams, Lima  
 Ping Chak Wong, Hong Kong  
 Hon Ching Yip, Hong Kong

### Bachelor of Science in Engineering Physics

Charles Michael Cales, Reynoldsburg  
 Robert Andrew Petric, Strongsville

### Bachelor of Science in Industrial and Systems Engineering

Margaret Suzanne Chappell, Wintersville  
 Nancy Christine Chico, Kettering  
 Michelle Colleen Clotts, Grove City  
 Peter Joseph Colombo, Aurora  
 Denise Susan Cook, Bellevue  
 Bradley Joseph Gail, Urbana  
 Sheryl Stephanie Jackson, Columbus  
 Bradley Harlan Laser, Mansfield  
 Jonathan Michael Linn, Cleveland  
 Kassim Abdul Mahdi, Freetown, Sierra Leone  
 Laura May McDonel, Northwood  
 Scott H. McLaine, Tipp City  
 Jeffrey Paul Oneth, Temple, TX

Anh Kim Pham, Columbus  
David Peter Resetar, Ellicott City, MD  
Don Scott Rimer, Vaughnsville  
David Wesley Rubadeux, Toledo  
Debra Lynne Schomer, Lima  
Marta Alicia Stayonoff, Troy  
Alice Anne Stelyn, Dayton  
Monica Anne Topp, Centerville  
Nancy Jean Trochilil, Elkins, WV  
Stephen John Valachovic, Columbus  
Ronald William Zesch, Cincinnati

### **Bachelor of Science in Mechanical Engineering**

Kevin John Beemiller, Chardon  
James Carson Bell, Toledo  
Gerald James Clark, Granville  
Donald Melvin Cooperrider, Lancaster  
Stephen Michael Curtis, Canton  
Mark Samuel DeFazio, Columbus  
David Arthur Doering, Wapakoneta  
Kent Anthony Enzweiler, Camp Springs, KY  
Scot David Geiger, Newark  
Pamela Sue Greenwald, Mayfield Heights  
Edward Bryan Greer, Delaware  
Darren Todd Harville, Springboro  
Robert Keith Hassen, Swanton  
Terrell Ann Holloway, West Chester  
Eric Martin Hutchinson, Solon  
Bevin Samuel John, India  
Thomas Anthony Jurlina, Parma Heights  
Kenneth James Karbon, Parma  
Karen Ann Meister, Columbus  
Charles John Melnik, Cleveland  
Craig David Miller, Columbus  
Richard Alan Mohar, Lakewood  
Kirk Ernest Neet, University Heights  
Hai Thanh Nguyen, Painesville  
Michael Channing Pfeil, Milford, MI  
William Douglas Pordan, Fairview Park  
Victor Alan Reinhart, Cleveland  
John Edward Rohde, Brunswick  
Michael Lawrence Schaffer, Cincinnati  
Jill Jeanine Schaffer, Alliance  
Patrick John Smith, Hudson  
Andrew Anthony Spicer, Lima  
Pam Lee Stoffer, Lorain  
Jerry A. Wheeler, Shelby  
Grant Richard Wilson, Alliance  
Steven Richard Wood, Mansfield  
Randy Alan Wright, Lancaster

### **Bachelor of Science in Metallurgical Engineering**

Bokabo Kalio, Port Harcourt, Nigeria  
Chee Hoong Lee, Kuala Lumpur, Malaysia  
Kenneth Douglas Ridgeway, Bethesda  
David Lee Runner, Palestine

### **Bachelor of Science in Welding Engineering**

Robert Quentin Adkins, Lancaster

### **School of Architecture**

#### **Bachelor of Science in Architecture**

Housam Abdulrahman Abdulrahim, Damascus, Syria  
Jack Lewis Bargaheiser, Tiffin  
Ross O. Bigelow, Williamsport, PA  
Michael Sean Healy, Columbus  
Arthur Paul Morris, Campbell  
Jeffrey Michael Reker, Medina  
Dean A. Stump, Oberlin  
Dzung Hoang Thai, Columbus

#### **Bachelor of Science in Landscape Architecture**

Jeffrey Scott Baker, Van Buren  
Joni Lynn Fortkamp, Dayton  
Thomas Whitson Henley, Bay Village  
John Phillip Jacobson, Sebago Lake, ME  
Troy Allan Richards, Barrington Hills, IL  
Jerry E. West, Mt. Gilead

### **College of Home Economics**

Dean: Lena Bailey

#### **Bachelor of Science in Home Economics**

Tamra Ruth Balding, Newark  
Deborah J. Brinkley, Lewisburg  
Emily Pintz Bush, New Concord  
Lori Lee Campbell, Kettering  
Diane Marie Del Balso, Richmond  
Barbara Lynn Dressler, Copley  
Charlene Rainett Dunmon, Mansfield  
Michelle Allison Dzurko, Massillon  
Lisa Sue Everman, Columbus  
Susan Irene Flynn, Akron  
Robert Alan Frabotta, Mayfield Village  
Leslie Kay Geldine, Toledo  
Dee-Ann Gleisinger, Mansfield  
Jane Ann Hanna, Marietta  
Caroline Lenora Hovatter, Uniontown  
Angeline Marie Jamison, Columbus  
Julie Louise Johnson, Columbus  
Ginger Kei Jones, Pemberville  
Diane Marie Jost, Columbus  
Catherine Margaret Kane, West Worthington  
Kristen Melanie Keller, Cleveland Heights  
Maria Jo Kowit, Mayfield Heights  
Linda Kay Kruger, Beavercreek  
Hwei-Nah Lin, Columbus  
Kimberly Suzanne Loeb, Columbus

Laura Lynn Marryott, Columbus  
Lynn Ann Nicolai, Bay Village  
Sherry Lynne Orth, Columbus  
Kimberly Renee Pierce, Cincinnati  
Guilherme Saggese Pinto, Rio de Janeiro, Brazil

Marcia Ann Polas, Poland  
TaRell Derry Poling, Columbus  
Celia Mabel Reyes, Zanesville  
Marie Anne Ridgeway, Columbus  
Bruce Howard Roth, Beachwood  
Elizabeth Anne Rumm, Worthington  
Maria Christina Salamony, Seattle, WA  
Tammy Lynn Sergeant, Lorain  
Mary Barr Sexton, Grove City  
Laura Ellen Smith, Perrysburg  
Laura Jean Sudkamp, Olmsted Falls  
Toni Ann Thompson, Worthington  
Rebecca Louise Vazquez, St. Clairsville  
Jill R. Virts, Columbus  
Tina Marie Welis, Woodsfield  
Ellyn Marie Whitehead, Columbus  
Marilyn Lorna Wilson, Columbus  
Jennifer Ann Zeck, Vermilion

#### **Bachelor of Science in Hospitality Management**

Gary Mark Behan, Cincinnati  
Janis Marilyn Kell, Bay Village  
Sheila Kay Lamb, Monroeville  
John C. Miller, Somerset  
Dennis Kenneth Penick, Shadyside  
Bradley Paul Ziessler, Columbus

#### **Bachelor of Science in Nutrition**

Joy Dorothea McFarland, Columbus

### **College of Medicine**

Dean: Manuel Tzagournis, M.D.

#### **Doctor of Medicine**

Keith Dinklage, Cincinnati  
B.A. (Southern Methodist University)

James R. Wolfe, Olivesburg  
B.S. (College of William and Mary)

### **School of Allied Medical Professions**

#### **Bachelor of Science in Allied Health Professions**

Terri Lynn Adams, Swanton  
Laurie Jane Andrews, Kettering  
Marykay Barnes, Euclid  
Carlene Elizabeth Bennett, Sylvania



Jeffrey Stephen Binns, Columbus  
 Victoria Ann Briggs, Columbus  
 Laura Johnson Burge, Worthington  
 April Louise Cnihfield, Mayfield Heights  
 Wendy Lee Davis, Frederick, MD  
 Rita Jean Dechant, Oberlin  
 Leigh Ann Donatini, Canton  
 Catherine Marie Driehaus, Cincinnati  
 Kathy Jo Duncan, Loudonville  
 Karen Marie Finke, Cincinnati  
 Nicole E. Forman, Dayton  
 Meg Marie Forthofer, North Ridgeville  
 Steven Michael Frey, Forest  
 George John Georgiandis, Steubenville  
 Ruth Ann Gilbland, Portsmouth  
 Tracy Beth Hall, Kent  
 Dana Jo Hare, St. Clairsville  
 Julie Ann Jarvis, Akron  
 Denise Marie Keim, Elyria  
 Mary Louise Kennedy, Bay Village  
 Laura Ann Kern, Norton  
 Melissa Ann Kessler, Columbus  
 Christine Anne Lachman, Hartsville  
 Susan Mary Lamantia, Toronto  
 Danelle Marie Macke, Dublin  
 Alice Marie Maite, Columbus  
 Annette Helen Marinelli, Mansfield  
 Teresa H. Miller, Chillicothe  
 Steven James Mitchell, Fairport Harbor  
 Nancy Marie Monnig, Ironton  
 Michael Henry Newhart, Bellaire  
 Cynthia A. Palmer, Columbus  
 Teresa Shuttler Patterson, Jackson, MI  
 David Woodburn Phelan, Reynoldsburg  
 Lisa Ann Potts, North Canton  
 Joanne Marie Prushing, Trenton  
 Shelly Shaffer Reardon, Aurora  
 Jeanne Marie Reilly, Upper Arlington  
 Susan Marie Rice, Warren  
 Melissa Lynn Richardson, Fairfield  
 Angela Judith Rosenstock, Westerville  
 Cynthia Kay Samlow, Napoleon  
 Maria Terese Sarisky, Kirtland  
 Sue Sheeran, New Lexington  
 Shari Lynne Sigler, New Carlisle  
 Cynthia Lynn Siudela, Bethel Park, PA  
 Gina DiFranco Smith, Worthington  
 Amy Lynne Stockslager, Tipp City  
 Dorothy Irene Sturman, Fairview Park  
 Ronald Gerard Thornburn, Cincinnati  
 Pamela Jane Tyler, Canton  
 Pamela Jean Vasiloff, Avon Lake  
 Jocelyn Denise Wagley, Beavercreek  
 Robert Owen Whittington Jr., Columbus  
 Sandra Kay Wilker, St. Marys  
 Daphne Michele Ziegler, Niles

#### **Certificate of Post Baccalaureate Circulation Technologist**

Robert Norman Forest, Ashland  
 B.S. (University of Maine)

Ann Marie Kozlowski, Bay Village  
 B.S. (Eastern Kentucky University)

### **College of Nursing**

Dean: Carole A. Anderson

#### **Bachelor of Science in Nursing**

Carmen Theresa Beebe, Columbus  
 Julia Ann Bloomfield, Chesterville  
 Kimberly Ann Edwards, Columbus  
 Melissa Ann McClaren, Caledonia  
 Kimberly Ialeen Mosebarger, Mt. Sterling  
 Monica Marie Poptic, Newton Falls  
 Constance Elaine Vasser Roser, Delaware  
 Mary Jean Vickers, Columbus  
 Carol Ross Watkins, Mansfield

### **College of Pharmacy**

Dean: John M. Cassidy

#### **Doctor of Pharmacy**

James Thomas Morris, Coshocton

#### **Bachelor of Science in Pharmacy**

Lisa Ann Marie Darvann, Youngstown  
 Douglas Edward Gallo, Columbus  
 Ayad Kamal Ghani, Dublin  
 Thomas Christopher Howe, Newark  
 James William Jones, Columbus  
 Lisa Ann Joseph, Zanewille  
 Seyoum Kiffie, Cincinnati  
 Judith Ann Newcomb, Conneaut  
 Isaac Jerry Pearson, Jr., Cincinnati  
 Pamela Susan Purtee, Columbus  
 Francine Fay Turose, Tiffin

### **Graduates with Honors**

Criteria for graduating with honors are as follows:

**Summa Cum Laude** designates those graduating in the top 3% of the class.

**Cum Laude** designates those graduating in the top 10% of the class.

**With Distinction** requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

**With Honors in the Liberal Arts** requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

**With University Honors** designates those graduating with curricular distinction and dedication to high educational goals.

### **Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Molecular Genetics**

Janet Ann Gianoles

### **Summa Cum Laude with Distinction in Biology**

Kenneth James Helal

### **Summa Cum Laude with Honors in the Liberal Arts**

Lisa Marie Bohman  
 Curtis Lee Kovach  
 Maria Diane Magisano  
 Howard Steven Nathan  
 Terese Marie Tiburzio  
 Jacqueline Tonie Tregellis

### **Summa Cum Laude**

Christopher Allen Bergsman  
 Lori Marie Capretta  
 James Thomas Crookston  
 Julie Anne Hearson  
 Thomas Evan Lowenkamp  
 Thomas Richard Miller  
 Carrie Jane Niese  
 Linda Neikirk Piatt  
 Susan Marie Rice  
 Resa Ann Robinson  
 Marianne Scheiderer  
 Cynthia Lynn Siudela  
 Nancy Ann Stecklein  
 Timothy Newton Taylor  
 Rebecca Sue Wettig  
 Grant Richard Wilson

### **Cum Laude with Distinction in Horticulture**

Ann Marie Chanon

### **Cum Laude with University Honors**

Nancy Lee Anderson  
 Nancy Christine Chico  
 Pandel Lee Collaros  
 Jennifer Ruth Haenicke  
 Stacy Anne Hickenbottom  
 Keven K. Kenison  
 Todd Alan Metcalf  
 Mark James Morscher  
 David Michael Roush  
 Loren Russell Williams

### **With Honors in the Liberal Arts**

Mary Louise Gallagher  
 Jon Christopher Hockman

### With University Honors

Peggy Louise Halley  
Vera Clarice Walker

Nancy M. Smathers  
Diane Marie Stavole  
Tow-Ee Tan  
Nancy Jean Trochilil  
Michele Renee Vogt  
Deborah Kay Weiss  
William Howard Wintrow

### Cum Laude

Jay E. Azbell  
Joyce Lynn Belden  
Emily Pintz Bush  
Janeen Marie Calame  
Beverly Ann Caley  
Kevin Paul Clark  
Jennifer Lynn Cofer  
Karen Ann Cook  
Kathleen Lee Crowley  
Joseph Lee Daubenmier  
Cynthia Ann Dean  
Jay Michael DeLong  
Dana Ann Elliott  
Phillip Dale Farnlacher  
Kyra Marie Fleming  
Bradley Joseph Gall  
Kristin Ann Garrett  
Karen Louise Goetz  
Ann Catherine Grimm  
Tracy Beth Hall  
Marcine Gail Harenberg  
Cynthia Ann Hassil  
Joseph Theodore Heaphey  
Timothy Allan Holkenborg  
Steven M. Hostetter  
Cheryl Lynn Hutchins  
Andrew Corland James  
Nancy Lee Jansen  
Julie Louise Johnson  
Lisa Ann Joseph  
Tracey Anne Judy  
Kenneth James Karbon  
Douglas John Kay  
Melissa Ann Kessler  
Kyle Bryan Klingler  
Demetrios Xenophontos Koulas  
Daniel Ray Lane  
Michael Wayne Lehman  
Mary Elizabeth Mahne  
Alice Marie Maite  
Sarah Helen Meirson  
Jeffrey Lynn Mengerink  
Steven James Mitchell  
Richard Martin Morgan  
Randy Scott Mowrer  
Andrea Jeanne Mustard  
Maxwell Joseph Nichols  
Jacqueline Gail Painter  
Paul Allen Pepper  
Laura Marie Pisciotta  
Theodore L. Potts  
Mia Angela Prince  
Joanne Marie Prushing  
Shelly Shaffer Reardon  
Don Scott Rimer  
Jerry C. Rockwell  
Donna Lynn Romell  
Constance Elaine Vasser Roser  
Satoshi Sakurai  
Mark Aaron Sayers  
Joyce Marie Schulze

THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FORTY-NINTH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, April 7, 1989

The Board of Trustees met at its regular monthly meeting on Friday, April 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

.. .. .

April 7, 1989 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on April 7, 1989, at 1:30 p.m. He requested the Secretary to call the roll.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Sophia L. Paige, and Laurel A. Davis.

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Mr. Immke announced the appointment of the following persons to the Nominating Committee:

Shirley D. Bowser, Chairperson  
Hamilton J. Teaford  
John J. Barone

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President Jennings:

I would like to note a couple of personnel matters. As you probably have seen, Jack Hollander, the Vice President for Research and Graduate Studies, has announced his retirement, Jack Hollander, effective at the end of August. We will be reviewing that position and starting a search committee shortly. Jack has been of great service to the institution and we will be sorry to see him go. But he is age 62, and has been expecting to retire at this stage for quite some time.

I would also like to introduce to you the new Director of the University Hospitals, who is with us this afternoon, Reed Fraley. He comes to us by way of Dallas, but is an Ohio State alumni and used to work in our Hospitals. Reed, thank you for coming and we appreciate your being here.

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## **PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S AND BEYOND**

President Jennings:

We talked about demographics last time, and I thought it perhaps important that we also chat about what the land-grant mission of the University means. I sent you just a rough draft of a paper I've done on the perspective of the land-grant with a little historical outline on it. I don't want to make this a long conversation but just highlight a few points.

I think the important issues here are that it was the land-grant act which established the fact that government has a responsibility for education. That was a radical idea. It started really with the Northwest Ordinance then got dropped for a while. This ordinance was the first document to assign to government the responsibility for education and particularly higher education. This was basically in recognition that education is what economists call a public good with externalities. That is to say that we, as members of society, benefit from other youngsters and other people receiving an education. We benefit economically but we also benefit in a context that we live in a democracy and a fundamental ingredient of a democratic society is an educated and informed voting populace. Thomas Jefferson started the University of Virginia. Now, Jefferson's definition of people is a little different than what we would have today, but nevertheless that thought got started and incorporated into

**PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S  
AND BEYOND (contd)**

President Jennings: (contd)

the land-grant. And, I note, that that was not really an idea that was without controversy. We think of it today as something normal and ordinary -- government taking responsibility, but we should note that the land-grant act was originally put forth in the 1850's and originally vetoed by President Buchanan. Public education had been incorporated into the Northwest Ordinance but had floundered a great deal after that.

The second thing that came with the land-grant was this idea that education should be for the masses, independent of one's social standing and one's financial standing. That it was not just for the elite, but it was for everybody. And again, this was not a model that was accepted in the United States nor in Europe, and to some extent not accepted today. Some of our problems are dealing with a portion of the community who would claim that we don't have a responsibility for certain elements of society. But more on that later.

Evolving out of that came this notion that you should make higher education financially available in three ways. One with low tuition; one with some sort of financial aid; and a third-leg of this accessibility stool being work opportunities. That developed in the late 19th Century and is still true today. It is very interesting also, that even today the most expensive institutions will have some sort of financial aid so that they can make the claim that their institution is affordable by anybody qualified. Even the most expensive institutions today make that claim. I would challenge those statements, but there is an awful lot of financial aid in institutions now that are either private or very high priced.

The third concept that the land-grant introduced was what I and a lot of people would call "local control." Again, a fairly radical notion by world standards. Most of the major universities of the world are national universities with a mission designed to deal with national issues. Whereas in the United States we have no national universities. We have some who will address national issues and Ohio State will address nation/international issues, but the control and the mission is local. In our case, our responsibility is to the State of Ohio. And insofar as that has effects on the nation or the rest of the world, that is a byproduct of our responsibility, but our responsibility nevertheless is to the State of Ohio.

The fourth concept that the land-grant introduced was this mixing of professional and liberal education. Most of the conflicts that you see in a university, most of the tensions you see, most of the problem areas you see, most of the budget issues are this inevitable trade-off between professional training and liberal education. We consistently have that, but that is a very new notion to the world of higher education. Professional education historically was an apprenticeship system that wasn't necessarily involved with a college education. Indeed, most of your early attorneys, early physicians were not college educated people. They were people who were apprenticed to another professional. Indeed, a lot of the teaching techniques you see going on today in the professional schools, particularly at the graduate-level, deal with that apprentice point of view. Sophia is going through some of that right now in the College of Medicine, where she is really not going to class, but is making rounds with a group of doctors. This is very similar to the old fashioned apprenticeship system. We, for the first time in the land-grant, mixed those two issues.

**PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S  
AND BEYOND (contd)**

President Jennings: (contd)

Another aspect that got slowly introduced was the issue of basic research in science and technology. In a free enterprise market economy, particularly, the private sector could not accept the risks involved in delving into some basic research activities where the chances of it being profitable are very, very slim, or if they are profitable, the profitability is very, very long-term. It became ever more clear as society evolved that that basic research should go on in universities so that the individual and the institution could take those risks without affecting society. And of course, in the land-grant that research originally took the form of agricultural research, because agriculture was 80% of our economy at that time. But that, of course, is now expanded out way beyond agriculture in recognition that basic research becomes part of the institution. As that evolved, it became also a tenet that it was not only the risk taking, but research was a necessary ingredient not only to provide the economy with research results, but to stimulate the improvement of teaching. The teaching and research became an integrated and integral set of activities. Good classroom teaching required individuals who were up to date on their field, who were excited about their field, and who were looking at the very frontiers of a particular subject matter that they were teaching. In otherwords, teaching and research were recognized, were synergistic and accomplished the same thing.

One of the amusing things, although not quite so amusing, is to look at Ohio State's Board Minutes in the '30's -- when we think we have budget problems today, our budget issues are minor. One of the great debates then was that we really ought to get rid of agricultural research, because look at all of the money we are spending and we really don't need any more. After all, it did appear that agricultural advances of the early 20th Century were so great that little was left to do! But, of course, basic research was going on and a great deal more has happened in that. Field after field can be described in that way.

Associated with this came this service-mission that we recognize today and recognize in virtually every industry, where one of our missions becomes that of taking our research results to the public, to the community-at-large and implementing those research results so that the public benefits directly from the research activity we are doing. Again, that got started with the agriculture community and cooperative extension, but today it has spread to virtually every activity we do. I might add though, I think it is fair to say that still the most successful service element of the institution, of any institution, is the agricultural activity. We are doing a better and better job in business and government and so forth, but still today that service is an important element.

Now these concepts have evolved into a system of higher education that has some great similarities from state to state. There are different governing bodies in every state. And there is anywhere from a governing body in higher education covering all the institutions in the state, to individual independent institutions. But what has developed in our country now is that virtually every state has three levels of higher education, the community colleges, the four-year institutions, and the comprehensive research institutions. And while there are differences across states, that general breakdown is pretty clear, and pretty well developed right now. Community colleges are strictly local, I mean local to the city or county. It is two-years, it is has the dual mission of technical education for a particular occupation or the first two-years of liberal education that would transfer to a baccalaureate degree.

**PERSPECTIVE ON LAND-GRANT UNIVERSITIES IN THE 1990'S  
AND BEYOND (contd)**

President Jennings: (contd)

The four-year institutions take the form of a baccalaureate program with virtually no graduate activity and virtually no professional activity. And then the comprehensive institution is the institution with undergraduate, graduate, and all professional activity.

In our Ohio system those three categories are there, but they are a little more blurred, particularly between the four-year and the comprehensive. The community colleges are a little bit blurred as well, because the technical schools are often separate institutions from the liberal arts institutions. They are blurred between the four-year and the research, because many of the four-years have graduate programs and professional programs. It is also blurred because this State has only one comprehensive institution, where as most other states have two or several -- Michigan and Michigan State; Texas and Texas A & M; Georgia and Georgia Tech; Cal-Burkeley, Cal-Davis, and Cal-UCLA; Washington and Washington State; and so forth. Whereas we have only one. In most states that dual flagship of comprehensive institutions -- one is the land-grant which is primarily agriculture, engineering; whereas the other traditional liberal arts is the heavy in liberal arts, medicine, and usually law. Business flops back and forth between the two. That, incidentally, is why Ohio State is the biggest institution in the country, not because our departments are particularly large, most of departments are small by big institution standards. The reason we are big is that virtually everything is here at Ohio State University. All of these activities are separate in most other states. Minnesota, of course, is the other big institution, but it is also the other large state that sums up their entire flagship activity into one institution.

Finally, the debate we are going through on the budget in this State is fairly typical of all states. This state historically has chosen to be a high tuition state. Our tuition at Ohio State is moderate by Big Ten standards, but the state is a high tuition state and has been historically. We are today, for example, 41st in the nation per capita support for higher education. We are 7th in the nation in terms of tuition on average at the institution, and relied mostly on financial aid, but also relied on a low college going rate. We have also been in the 40's and 30's in the terms of the percentage of high school graduates going on to college. I think the conventional wisdom is that the reason is is that there have been so many job opportunities in the heavy industry that are high paying and offer career opportunities, 30 or 40 years with the auto industry, or 30 or 40 years with the steel industry. That probably isn't the case today. Of course we see, as we saw last time, our college going rate increasing. We need not shut that off with high tuition as has been the case in relative times gone by. That is of course the debate that we are trying to get the General Assembly to recognize.

(See Appendix XXVIII for complete text on "Perspective on Land-Grant Universities," March 31, 1989, page 913.)

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## HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The Hospitals Board and two of its standing committees met on March 16. We got our usual fine report on the medical staff activities from Dr. Clausen, Chief of Staff. Mr. Holder, who is an attorney on Dr. Tzagournis's staff, informed us that the Hospitals experienced a remarkable year with regard to malpractice claims. Indeed, the Hospitals paid only \$36,000.00 in malpractice claims for the entire year. While I would like to claim that that is because they had outstanding lawyers, I would suggest to you that is not the reason. The reason is because they had outstanding and careful doctors and staff. Indeed, there was no basis for malpractice claims.

We received a report on quality assurance activities from the Department of Anesthesiology which then resulted in a very lengthy debate on who controls operating room temperatures. I think, as we expected, surgeons do by the way. During the course of that report, Mr. Lazarus raised a broader issue of a sort of hospitals standard way to handle problems. Mr. Fraley should note that whenever there is a problem, we form a committee to handle it. Dr. Tzagournis has agreed to study this issue and bring us a recommendation on that to our next meeting.

Dr. Cornwell presented a summary of the research programs in the College of Medicine and the Hospitals, which indicated that we are making some substantial progress in increasing the amount of research to the appropriate level for a hospital our size. We are not there yet, but we have made very significant progress.

We received the financial report and reviewed and accepted the Touche Ross Audit Report, which as you know, did not disclose any material weaknesses. Mr. Percel produced a report on our Accounts Receivable problems. Currently, Accounts Receivable at the Hospitals are in an excess of 100 days and that number has been increasing. Compared to our performances with other hospitals, with inside and outside of the Big Ten, while we did compare favorably with some of those hospitals, it was clear that significant improvement is possible in that regard. The administration was asked to determine whether our slow collection was due to state policies or to the practices of local third party payers and to what extent, we at Ohio State, could improve that simply by having a better system.

We also heard a comprehensive report from Dr. Gabbe of the Department of Obstetrics and Gynecology about that Department since he joined it less than 2 years ago. He also showed us clear progress, particularly in the area of increased research. The most remarkable thing that happened at the meeting, however, was that Mr. Nichols introduced three hospital employees who had achieved perfect attendance, one for 11 years, one for 16 years, and one for 17 years. I still do not believe that, but there they were. We also officially expressed our thanks to Mr. Nichols for the outstanding job he did as the interim director. That completes my report, Mr. Chairman.

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April 7, 1989 meeting, Board of Trustees

President Jennings:

Mr. Chairman, one item on the Hospitals Board while we are there. With your permission, I would like to recommend to you the Appointment of Judge James L. Graham to be appointed as a general public member of the University Hospitals Board for a term of three years effective May 1, 1989.

#### Background

Honorable James L. Graham

The Honorable James L. Graham is a United States District Judge in the Southern District of Ohio, Eastern Division. Judge Graham received his B.A. and J.D., summa cum laude, from The Ohio State University.

Judge Graham was engaged in the private practice of law, specializing in litigation. He was appointed to the United States District Court for the Southern District of Ohio in 1986.

#### **UNIVERSITY HOSPITALS BOARD APPOINTMENT**

Resolution No. 89-80

Synopsis: The Academic Affairs Committee recommended the confirmation and approval of an individual to the University Hospitals Board.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS Judge Graham has been highly recommended for appointment as a Hospitals Board Member;

NOW THEREFORE

BE IT RESOLVED, That Judge James L. Graham be appointed as a general public member of the University Hospitals Board for a term of three years, effective May 1, 1989.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, with an abstention by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by voice vote.

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#### **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investment Committee heard the Endowment Investment Report which showed a market value of \$ 263,182,760 as of March 17.

We also reviewed and accepted the recommendation of the University Treasurer for changes in the Asset Allocation of the Endowment Funds Investments. The changes which are summarized in the Board resolution we are recommending

**INVESTMENTS COMMITTEE REPORT (contd)**

Mr. Kessler: (contd)

represent a shift in policy to having index funds as a central core of both the equity and fixed income assets, with investment managers selected to provide value added beyond the index funds. In addition to placing \$10 million in the broad domestic index fixed income fund, we are recommending placing \$30 million in an S & P 500 index fund, \$15 million in a small capitalization index fund, and \$10 million in an international equity index fund. The committee is also recommending that the Treasurer bring back to this Board provisions to the University's Investment Policy which will incorporate these new asset allocations as well as authorize the Treasurer to allocate new monies received by the Endowment as 60% equity index fund, 20% bond funds, and 15% cash and equivalents. We are recommending this resolution to change the Endowment asset allocation and Investment Policy for your approval.

Mr. Berry:

Jack, I heard you to say 20% bond index fund, you met 25%, didn't you?

Mr. Kessler:

I do mean 25%.

Mr. Teaford:

I just have one question. There is at least one area in which that violates the policy of the Board. I agree with this recommendation but do we need to somehow amend the policy with regard to international investment?

Mr. Ihrg:

Mr. Teaford, the second resolve, it is on the second page, is directed to bring back a revision to the investments policies to so amend. That will be done in a timely manner before the actual investments are made.

Mr. Teaford:

Okay, fine.

Mr. Nichols:

There is also a provision, Mr. Teaford, in the existing Board policy that allows the Board to make expectations by Resolution. So this would also fit into that section.

Mr. Kessler:

The Investments Committee also reviewed the report of the University audits for 1987-88 with representatives of Touche Ross, the auditors, as well as Parnes Company, the external auditors. The University has received unqualified opinion for 1987-88 from Touche Ross. This review covered compliance as well as control issues noted in the audit with the responses from appropriate University staff. The audit was thorough and the issues are being appropriately addressed by the staff. We found no issues of unusual concern to bring to the Board's attention, and we

**INVESTMENTS COMMITTEE REPORT (contd)**

recommend the Board approve the resolution accepting the report of audit recommendations and responses for 1987-88.

(See Appendix XXVIII for complete text of The Ohio State University Endowment Summary, March 17, 1989, page 923.)

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Mr. Kessler:

The Investments Committee is recommending the following resolutions for approval:

**ASSET ALLOCATION ADJUSTMENTS TO THE ENDOWMENT FUND**

Resolution No. 89-81

Synopsis: The Investments Committee recommended the approval to make asset allocation adjustments to the Endowment Fund.

WHEREAS the Board of Trustees enlisted the services of Ennis Knupp & Associates to analyze the University's current Endowment investment policies; and

WHEREAS Ennis Knupp & Associates made several recommendations regarding the level of investment risk incurred, how risk is controlled and diversification of the Endowment portfolio; and

WHEREAS it is the belief of the Investments Committee and the Treasurer that the Endowment should continue to follow its goal of preserving the purchasing power of the Endowment and to achieve this by following a strategy emphasizing total return with an orientation towards achieving this goal over the long term; and

WHEREAS it is important that the orientation towards achieving this goal be a long-term one; and

WHEREAS the Endowment should further diversify into sectors of the market not currently being utilized; and

WHEREAS it is recommended that the Endowment move towards establishing a core position in index funds as a way of tracking the general market place while utilizing the talents of investment managers as a method of enhancing returns around the core; and

WHEREAS it is desirable that a method of allocating new cash coming into the Endowment be utilized to maintain the desired asset distribution of the Endowment:

NOW THEREFORE

BE IT RESOLVED, That upon recommendation of the Investment Committee of the Board of Trustees that the Treasurer be empowered to make the following changes to the Endowment:

- A. Equities
  - Sell all shares of the Neuberger and Berman Energy Mutual Fund.
  - Reduce allocation to the Chicago Corporation and Siebel Capital Management, Incorporated by \$7.5 million each.
  - Place \$30 million in a S & P 500 index mutual or co-mingled fund.

**ASSET ALLOCATION ADJUSTMENTS TO THE ENDOWMENT FUND (contd)**

Place \$15 million in a small capitalization index mutual or co-mingled fund.  
Place \$10 million in an international equity index mutual or co-mingled fund.

- B. Fixed Income  
Place \$10 million in a broad domestic index mutual or a co-mingled fund.
- C. Allocation of New Money  
As new money enters the Endowment, it will be allocated in approximately the following manner:
  - 60% equity index funds
  - 25% bond index fund
  - 15% cash and equivalents

BE IT FURTHER RESOLVED, That the Investments Policy be revised to permit investments in an international equity index mutual or co-mingled fund and that the Treasurer be directed to bring to this Board specific revisions to incorporate this change, and any other appropriate changes to the Investments Policy.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**ACCEPTANCE OF THE REPORT OF AUDIT  
RECOMMENDATIONS AND RESPONSES FOR 1987-88**

Resolution No. 89-82

Synopsis: The Investments Committee recommended the acceptance of the report of audit recommendations and responses for 1987-88.

WHEREAS in August 1985, with the approval of the Auditor of State, The Ohio State University entered into a four-year agreement with Touche Ross and Company for an annual audit of the University for fiscal years 1985-86 through 1988-89; and

WHEREAS the Touche Ross audit of the University for 1987-88, meeting the requirements of the Auditor of State, has been received and the accounts, records, files, and reports of the University have been found to be in satisfactory condition, but certain recommendations have been included in the audit report; and

WHEREAS the auditors' recommendations have been studied by the appropriate University offices, and procedures and responses have been developed as a result of the recommendations:

NOW THEREFORE

BE IT RESOLVED, That the report of the Touche Ross and Company audit recommendations for The Ohio State University for 1987-88 (including separate sections for the University Hospitals, the Development Fund, the Dormitory Revenue Bond Funds, the University Housing Commission, and the WOSU Stations and including the Ohio Revised Code compliance letter) and the management responses to the recommendations be accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

**ACCEPTANCE OF THE REPORT OF AUDIT  
RECOMMENDATIONS AND RESPONSES FOR 1987-88 (contd)**

(See Appendix XXX for complete text of Touche Ross Auditors Report, for the year ending June 30, 1988, page 933)

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**ACADEMIC AFFAIRS COMMITTEE REPORT**

Ms. Casto:

This morning in the Academic Affairs Committee we meant with Barbara Newman who gave us a report on the Action Plan. Which was the recruitment and retention of black students here at Ohio State University.

We also heard from James Bishop and his comments on the Young Scholars Program. It was really interesting the amount of students that they are getting involved in and really trying to keep their interest.

We also heard from Sue Blanshan on the University Senate Committee for Women and Minorities. I think that all of these programs are benefitting Ohio State.

(See Appendix XXXI for complete text on the Summary of Report on Affirmative Action, page 1019.)

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Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY**

Resolution No. 89-83

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on January 28, 1989, and March 4, 1989, as follows:

**AMENDED RULES**

3335-5-19 Faculty.

As used in these rules the term "faculty" shall include persons appointed by the board of trustees with regular, regular clinical, auxiliary, and emeritus faculty titles on full- or part-time appointments, with or without salary.

(A) unchanged.

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

- (B) "Regular clinical faculty": persons with the titles of professor of clinical (department), associate professor of clinical (department), assistant professor of clinical (department), and instructor of clinical (department), who serve on appointments totaling fifty per cent or more service to the university. Regular clinical faculty appointments are made only in the following departments of the college of medicine: anesthesiology, family medicine, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, physical medicine, preventive medicine, psychiatry, radiology, and surgery.

The number of persons holding regular clinical faculty titles in each department cannot be greater than one-third the number of persons holding regular faculty titles in that department. Individuals appointed to the regular clinical faculty are limited to participating in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

Balance unchanged.

3335-5-471 Steering committee.

(A) Membership

The steering committee shall consist of fourteen members.

- (1) unchanged.
- (2) Four students.
  - (a) The president of the council of graduate students. The vice president of the council of graduate students may attend steering committee meetings with full voting privileges if the president cannot attend.
  - (b) The president of the inter-professional council. The vice president of the inter-professional council of graduate students may attend steering committee meetings with full voting privileges if the president cannot attend.
  - (c) The president of the undergraduate student government. The vice president of the undergraduate student government may attend steering committee meetings with full voting privileges if the president cannot attend.
  - (d) One appointed by the undergraduate student government from the undergraduate student membership of the senate. The term of service is one year. The vice president of the undergraduate student government may attend steering committee meetings with full voting privileges if the appointed member cannot attend.

3335-5-488 Committee on honorary degrees.

(A) Unchanged.

(B) Duties and responsibilities.

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

- (1) Establish definite standards of scholarly attainment or of the distinctive applications of such attainment in the service of society by which to judge the qualifications for this honor.
- (2) Establish procedures for the nomination of potential candidates for honorary degrees.
- (3) Receive nominations concerning persons who might be considered for an honorary degree.
- (4) Review thoroughly the achievements and qualifications of all persons nominated.
- (5) Report to the university senate for its consideration and action such persons as have received no fewer than four affirmative votes from the committee membership.
- (6) Keep all deliberations and votes confidential except where publication is necessary for official purposes.
- (7) Deliver the full dossier of each candidate and the nomination report of the committee on honorary degrees to the secretary of the university senate who shall distribute the nomination report to all members of the university senate.

Balance unchanged.

**3335-47-11 Regular clinical faculty ranks.**

The titles of regular clinical faculty are professor of clinical (department), associate professor of clinical (department), assistant professor of clinical (department), and instructor of clinical (department). Individuals in this track may have a full range of responsibilities to appropriate academic units with emphasis on patient care and clinical teaching activities. Clinical activities for faculty members in this category are to be included in approved practice plans.

**(A) Appointment criteria**

Initial appointments, or transfer, to the regular clinical faculty will be made for individuals with the following experience or credentials:

- (1) They are strict or geographic full-time faculty members in clinical departments in the college of medicine, as defined by the college of medicine.
- (2) They engage in activities which consist primarily of patient care and clinical teaching and supervision.
- (3) They have the appropriate educational background and credentials to engage in the activities outlined in paragraph (A)(2) of this rule. Formal requisite: M.D. degree or equivalent qualification.
- (4) They are essential to the continuing mission of the college of medicine as determined by the appropriate clinical department chairperson, dean of the college of medicine, and vice president for academic affairs and provost.

**(B) Term of appointment.**

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

- (1) In the first term of appointment to the regular clinical faculty, appointees will be reviewed annually. During the fourth year, a formal review will be conducted. The faculty member will be informed if the appointment is to be renewed after the fifth year.
- (2) Subsequent appointments will be for periods of five years in lieu of tenure. A formal review will be conducted in the fourth year and the faculty member will be informed if the appointment is to be renewed after the fifth year for another five-year term.
- (3) All appointments will be based upon criteria established by the clinical departments, approved by the dean of the college of medicine, and vice president for academic affairs and provost.
- (4) If the appointment is not renewed, standards of notice must be in accord with rule 3335-47-09 of the Administrative Code.

(C) Transfers

It is generally expected that the needs of the academic unit and the career goals of the prospective faculty member will result in A meshing of need, expectation, responsibility, and expertise to allow a long-term appointment to either the regular faculty or regular clinical faculty. Should a transfer be considered appropriate, the following must be accomplished:

- (1) The process of transfer from the regular faculty to the regular clinical faculty or from the regular clinical faculty to the regular faculty is initiated only upon the written request of the faculty member. A recommendation for transfer must indicate clear evidence of a change in the individual's career goals and expectations, duties, and activities.
- (2) An individual appointed to a tenure-eligible position as an instructor or assistant professor requesting transfer to the regular clinical faculty must do so no later than the beginning of the fourth year of service, or after tenure has been granted. Transfer of a tenured faculty member to the regular clinical faculty requires resignation of the tenured position.

An individual from outside the university appointed to a tenure-eligible position as an associate professor requesting transfer to the regular clinical faculty must do so no later than the beginning of the second year of service, or after tenure has been granted.

Balance unchanged.

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Amb. Wolf, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## **DISTINGUISHED SERVICE AWARDS**

Resolution No. 89-84

**Synopsis:** The Academic Affairs Committee recommended the approval for eight individuals to receive Distinguished Service Awards.

WHEREAS the President's Staff, serving as a Committee on Distinguished Service Awards, has nominated and recommended eight individuals for approval by the Board of Trustees to receive the Distinguished Service Award at a time convenient to the University and the recipients:

Dale T. Friday

Although he retired in 1981, Professor Emeritus Dale T. Friday continues to provide service to The Ohio State University as an advocate for agricultural research and education and in support of the University.

As the first General Manager of the Ohio State Farm Science Review, Professor Friday directed all facets of the review. During his 18 years as manager, the number of exhibitors grew from fewer than 100 to more than 500, and the review became internationally recognized as the premier showcase of the best in agricultural automation, farming practices, farm crop varieties, and livestock breeds.

Professor Friday is a noted agronomist who pioneered research on forestry fertilization by airplane and originated the first aerial application of dry fertilizer. He served as Project Supervisor for the application of the first two carloads of liquid nitrogen fertilizer to be applied in the United States.

As one of the founders and organizers of the North American Farm Show Council, Professor Friday has served as President of that organization and presently serves as Executive Coordinator. As a representative of the Allied Chemical Company, he administered 17 grant-in-aid programs at 15 of the nation's land-grant universities. He has been awarded the Ohio FFA Honorary State Farmer Degree, and has received the Distinguished Alumni Award from The Ohio State University's College of Agriculture.

Because of this active service for the benefit of his alma mater, Professor Friday is exceptionally qualified to receive the Distinguished Service Award.

Noel F. George

Noel F. George, a graduate of The Ohio State University's College of Law, has made significant contributions both to the practice of law and to legal education. As one of the College's most outstanding graduates, he has distinguished himself in the area of transportation law, and his achievements have been notable in the field of interstate commerce.

Mr. George has quietly and effectively served his alma mater. He has been extraordinarily supportive of the College of Law. He is open to and concerned with the needs of the College, and his contributions have enabled the College of Law to undertake the expansion of its library and attract top faculty. Because of his leadership and support of his colleagues at his law firm, Baker and Hostetler, a major capital campaign has become viable for the College.

### **DISTINGUISHED SERVICE AWARDS (contd)**

#### **Noel F. George (contd)**

A successful lawyer and a committed alumnus, Mr. George has amply shown that he values his Ohio State education. His significant and timely gifts have enabled the College of Law to proceed with its initiatives. Mr. George has been a leader in promoting the interests of The Ohio State University and its distinguished College of Law.

#### **Robert E. Georges**

As Associate Dean Emeritus of the College of Business, Robert E. Georges has been active in his support of and service to The Ohio State University. Dean Georges' primary concern was for students, and he promoted the expansion and support of accounting and business education opportunities, especially for minorities. He has been a friend and counselor for generations of business students in over two decades of service.

Dean Georges was responsible for a variety of policies and programs designed to increase minority student opportunity. The New Careers Program in the 1970's sought to prepare minority students for management careers. It actively recruited students and prepared them through special counseling, tutoring, and tuition reimbursement, and in addition guaranteed them jobs on completion of the program.

Dean Georges was instrumental in the development and administration of the Minority Assistance Program in 1975. The goals of the program include minority recruitment, financial assistance, special counseling, intern experience for the participants, and the enhancement of the students' educational life.

Dean Georges' dedication to these programs and his own prodigious efforts have resulted in high success rates. His personal touch has encouraged many students to continue their education. In recognition of his efforts towards these goals, Dean Georges received the 1985 Distinguished Affirmative Action Award. A member of many important University committees, Dean Georges was an active University citizen.

#### **Frederick G. Ruffner**

A 1950 graduate of The Ohio State University's College of Business, Frederick G. Ruffner has continued to serve the University in a number of capacities.

Mr. Ruffner demonstrates a clear pride in his alma mater. A loyal and dedicated alumnus, he has supported The Ohio State University, most especially its libraries. Through his publishing company, Gale Research, he has provided the libraries with a large number of reference materials. In addition, his generosity has bolstered the general emergencies priority fund and many other preservation and instructional advancement funds in the libraries.

Most recently, Mr. Ruffner has served as chair of the National Campaign Steering Committee. His unstinting dedication to this effort has carried it through its first three years with enormous success. He has been influential in the initial planning, strategy, and progress of The Ohio State University's five-year campaign.

During his 40 years' affiliation with the University, Mr. Ruffner has been a member of the President's Club, the Alumni Association, and the Friends of the Libraries. Beyond the University, he is president of Friends of the Libraries U.S.A. and is very much involved in the preparation of

## **DISTINGUISHED SERVICE AWARDS (contd)**

### **Frederick G. Ruffner (contd)**

several projects for the 1992 Quincentenary Celebration as president of the Phileas Society. He has been recognized for his contributions to Ohio with the 1988 Ohioana Career Medal. In 1970, he received The Ohio State University Centennial Award.

Because of his leadership, generosity, and service to The Ohio State University, Mr. Ruffner is indeed worthy of a Distinguished Service Award.

### **Thomas B. Smith**

Thomas B. Smith, Associate Vice President Emeritus for Physical Facilities, dedicated his 39 years at The Ohio State University to service. During his tenure here, he served as an engineer in the Office of the University Architect, as Assistant and Associate Director of the Physical Plant, and as Associate Vice President of Physical Facilities.

Mr. Smith has been at the forefront of the significant growth in facilities that has taken place at the University since 1956. In his capacity as Assistant and later Associate Director of the Physical Plant, he oversaw the planning and the construction of more than 300 major projects, including new academic facilities, St. John Arena, and the entire North Campus residential and dining complex. In addition, he managed the operation and maintenance of the air conditioning and electrical systems, utility usage forecasting, and other important management functions.

Continuing his pattern of excellent management and service, Mr. Smith supervised the expansion of the Health Science facilities, the completion of West Campus and the regional campuses, and the reconstruction of University Hall. During this period approximately 78 percent of the University's buildings were constructed.

Of special note is Mr. Smith's commitment to energy conservation. His innovative ideas and management enabled the University to meet the rising costs of energy sources successfully. From 1973 to 1986, energy management measures saved the University over \$100 million, and will continue to provide savings for years to come.

Mr. Smith received the Meritorious Service Award from the Association of Physical Plant Administrators. His management of construction, renovation, and service helped to make The Ohio State University's physical plant a model for university facilities management.

### **Mary Anne Southard**

After thirty years as a key member of the Office of Communications and Development, Mary Anne Southard retired in 1987. During her sixteen years as Associate Director for the Gift Processing Department, she never forgot the importance of the personal touch in dealing with staff members, faculty, students, and the many friends of The Ohio State University.

During her tenure in the development area, the number of gifts increased dramatically, as did the technology within the office. Although her department handled an increasingly complex load, Ms. Southard continued to insure that each donor's wishes for the disposition of gifts were followed. Her attention to this detail and her professional attitude set standards for the entire department. Many longtime donors came to know her by name and thus felt comfortable about trusting her with their wishes.

### **DISTINGUISHED SERVICE AWARDS (contd)**

#### **Mary Anne Southard (contd)**

Because of her knowledge, experience and expertise, Ms. Southard has been able not only to keep up with the growing volume of gifts to the University, but she has also improved the speed and quality of processing. Her dedicated management has inspired a confidence in this department that is still very much in evidence.

Ms. Southard exemplifies the professionalism and achievement that is the goal of the Office of University Communications and Development and, indeed, all of the University. Because of her dedicated service and willing attitude, Ms. Southard is a very worthy candidate for a Distinguished Service Award.

#### **Stuart A. Summit**

Stuart A. Summit is numbered among the most distinguished graduates of The Ohio State University College of Law. Mr. Summit is a principal partner and head of litigation of the New York firm of Summit, Rovins and Feldesman. His contributions to The Ohio State University can best be characterized as unselfish service.

This loyalty to Ohio State began while Mr. Summit was an undergraduate student. He was a member of Romophos, Bucket and Dipper, and Sphinx honor societies, the Student Senate, and served as a Chief Justice on the Student Court.

As an alumnus, Mr. Summit has continued to give exceptional leadership to his alma mater. He has served the Alumni Association extensively as an alumni club officer, president of the College of Law Alumni Association, and member of the Alumni Advisory Council. He serves on the Development Fund Board of Directors and is a member of the National Campaign Committee. In recognition of his outstanding contributions, Mr. Summit has received the Alumni Association's Mershon Award.

Always giving to his community, his profession, and his university, Mr. Summit has been a national associate for the Boys Clubs of America, and is active in professional associations.

#### **Leon I. Twarog**

Leon I. Twarog, Professor Emeritus of Slavic and East European Languages and Literatures, has had a long and distinguished career at The Ohio State University as the founder and developer of the Slavic Program and as a leader in developing international programs for the University and its students.

Coming to The Ohio State University in 1962 from Boston University, where he taught Russian, Professor Twarog faced the challenge of building a program focusing on Slavic languages and literatures. His great determination and dedication soon began to attract able faculty, but it was his foundation of a comprehensive Slavic studies library that solidified the new program. Supported with a grant from the University, he traveled to the Soviet Union and collected a sizable portion of valuable works, including complete editions of the major writers. The notable Hilander Collection in Medieval Slavic Studies is an outgrowth of Professor Twarog's foresight in gathering materials.

April 7, 1989 meeting, Board of Trustees

## **DISTINGUISHED SERVICE AWARDS (contd)**

Leon I. Twarog (contd)

In 1963, Professor Twarog was instrumental in the formation of a language study program to the USSR. Now operating as the Ohio State-Purdue Pushkin Institute exchange program, it has become an important link between our two academic worlds. In 1965, he established the Ohio State Center for Slavic and East European Studies, considered the leading program in the area. In his capacity as Associate Dean of Faculties for International Programs, he developed plans and structures for many of the international programs that are now in operation at Ohio State.

Professor Twarog has served as president of the American Association of Teachers of Slavic and East European Languages and as executive secretary of the American Association for the Advancement of Slavic Studies. A world leader in this field, he has worked to spread the study of Slavic languages to high schools, and instituted the annual Slavic Day, which continues to bring 300 to 400 high school students to campus each year.

Largely due to his dedicated service and enthusiastic attitude, The Ohio State University's Department of Slavic and East European Languages and Literatures today enjoys a prominent reputation in its field. Professor Twarog truly exemplifies the standard of excellence to which this University holds.

and

WHEREAS these awards are given in recognition of distinguished service to The Ohio State University and the awards are in accordance with action taken by the Board of Trustees in 1952:

NOW THEREFORE

BE IT RESOLVED, That the Distinguished Service Awards be approved for awarding as designated above.

Upon motion of Mrs. Bowser, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## **HONORARY DEGREE**

Resoluton No. 89-85

Synopsis: The Academic Affairs Committee recommended the approval for awarding an honorary degree.

WHEREAS the Committee on Honorary Degrees and the University Senate, pursuant to rule 3335-5-488 of the Administrative Code, have approved for recommendation to the Board of Trustees awarding of an honorary degree as listed below:

## HONORARY DEGREE (contd)

Julian B. Rotter

Professor Rotter is widely recognized as one of the most eminent psychologists of his generation. He has had a distinguished career of original research and outstanding service. His unique contributions to psychology include the formulation of a comprehensive theory of social learning, the assessment of theoretically relevant measures of individual differences and personality.

Professor Julian B. Rotter served as a member of The Ohio State University faculty from 1946-63 and for eleven years was the Director of the Psychological Clinic. He received his A.B. in Chemistry from Brooklyn College, and his M.A. and Ph.D. degrees in Psychology from State University of Iowa and Indiana University, respectively.

Professor Rotter's most impressive contribution to psychology was the combining of two important theoretical traditions, namely cognitive and reinforcement theory. In 1954, Professor Rotter published his book, Social Learning in Clinical Psychology, in which he presented a theory that gave importance both to cognitive as well as the reinforcement value that specific events could hold for an individual. He was one of the first major theorists to emphasize the critical importance of the interaction between social situations and individual differences in personality. This theoretical framework set the stage for the development of a number of expectancy variables that helped predict how people behave. The best known of these is his creative contributions in conceptualizing and measuring internal versus external locus of control of reinforcement expectancy (IE) that became one of the most predominant expectancy variables used in personality and social psychology research over the last 25 years.

In addition to his creativity as a scholar, Professor Rotter has been a leader in the field of psychology. Recognition of his outstanding contributions is reflected in his receiving the American Psychological Association Award for Distinguished Contributions to the Science and Profession of Clinical Psychology. He is one of the outstanding contemporary psychologists of our time. His theory, concepts, insights, and empirical research have changed the field of psychology. Few people have been able to bring the innovative theoretical and applied understandings of human behavior to psychology in the way that Professor Rotter has. Much of this work was accomplished while he was on the faculty of The Ohio State University.

### NOW THEREFORE

BE IT RESOLVED, That an honorary Doctor of Science degree be awarded to Julian B. Rotter in accordance with the recommendation at a time convenient to the University and the recipients.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### WAIVER

Resolution No. 89-86

Synopsis: The Academic Affairs Committee recommends the approval of a waiver.

WHEREAS pursuant to the Board's acceptance of the Report of the Committee on Retirement and Insurance on February 6, 1959, and Resolution 77-92, "Principal Administrative Officials" of The Ohio State University are to be relieved of their administrative assignments at age 65; and

**WAIVER (contd)**

WHEREAS the University's proposed appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences and as Dean of the College of Social and Behavioral Sciences would be restricted by the age 65 exclusion; and

WHEREAS Joan N. Huber has demonstrated outstanding service to the University in her capacity as Dean of the College of Social and Behavioral Sciences and her appointment is within the purview of the affirmative action goals of The Ohio State University; and

WHEREAS the University wishes to appoint Joan N. Huber to these administrative posts beyond her sixty-fifth birthday:

NOW THEREFORE

BE IT RESOLVED, That Resolution 77-92 and the provisions of the February 6, 1959, Report of the Committee on Retirement and Insurance be waived to allow the appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences from January 1, 1989 to December 31, 1991, and Dean of the College of Social and Behavioral Sciences from July 1, 1989 to June 30, 1994.

Mrs. Bowser:

I cannot not vote to waive Resolution 77-92. I think it is a good rule and a fair rule, and a rule that Ohio State has used in a nondiscriminatory manner for forty years. While I admire Dr. Huber's accomplishments, I cannot vote to waive this rule. I vote no.

Upon motion of Amb. Wolf, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution with six affirmative votes cast by Messrs. Immke, Berry, Teaford, Kessler, Wolf, and Ms. Casto, and a negative vote cast by Mrs. Bowser.

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**REAPPOINTMENT OF JOAN N. HUBER**

Resolution No. 89-87

RESOLVED, That the appointment of Joan N. Huber as Coordinating Dean for Arts and Sciences, effective January 1, 1989, through December 31, 1991; and Dean of the College of Social and Behavioral Sciences, effective July 1, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code and permitted as a result of this Board's waiver today of the age 65 exclusion for "Principal Administrative Officials" for Dean Huber.

Mrs. Bowser:

Since the rule has been waived, I can happily vote for Dr. Huber.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## PERSONNEL ACTIONS

Resolution No. 89-88

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the February 3, 1989 meeting of the Board, including the following Change in Title, Reappointment of Principal Administrative Official, Appointment of Chairpersons and Director of Departments and Program, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leaves, Professional Improvement Leaves--Change in Dates, Emeritus Titles, Emeritus Title--Cancellation, and Emeritus Title--Change in Title, as detailed in the University Budget be approved and the Medical Staff Appointments/Reappointments approved January 26, 1989, and March 16, 1989, by the Hospitals Board be ratified.

### Change in Title

NAME: RICHARD A. HOLLINGSWORTH  
Title: Dean of Student Life  
Office: Student Life  
Effective: March 1, 1989  
Salary: \$55,080.00  
Present Position: Acting Dean of Student Life

### Reappointment of Principal Administrative Official

RUSSELL J. SPILLMAN, Vice Provost for Student Affairs, effective February 3, 1989, through June 30, 1994, pursuant to rule 3335-3-17 of the Administrative Code.

### Appointment of Chairpersons and Director of Departments and Program

January 15, 1989 through September 30, 1989

Educational Policy and Leadership

Elsie J. Alberty\*

February 1, 1989 through September 30, 1990

Chemistry

Russell M. Pitzer

October 1, 1989 through June 30, 1994

Cognitive Science Program

Peter W. Culicover

\*Acting Chair

### Leaves of Absence Without Salary

GARY K. NUGENT, Professor, Cooperative Extension Service, effective February 1, 1989, through January 31, 1990, for medical reasons.

WILLIAM J. TYZNIK, Professor, Department of Animal Science, effective April 17, 1989, through June 18, 1989, for personal reasons.

ATTILA A. BRUCKNER, Assistant Professor, Department of Industrial Design, effective Spring Quarter 1989, for personal reasons.



## **PERSONNEL ACTIONS (contd)**

### Leaves of Absence Without Salary (contd)

YONG-TAEK IM, Assistant Professor, Department of Industrial and Systems Engineering, effective Spring Quarter 1989, for personal reasons.

SUSAN P. VAN PELT, Assistant Professor, effective Spring Quarter 1989, for personal reasons.

### Leave of Absence Without Salary--Continuation

JO MARLENE JONES, Assistant Professor, Cooperative Extension Service, effective February 1, 1989, through May 30, 1989, to continue to work on her Ph.D. degree at North Carolina State University.

### Professional Improvement Leaves

KATHERINE H. BURKMAN, Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

KENNETH A. MARANTZ, Professor, Department of Art Education, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

LEE B. BROWN, Associate Professor, Department of Philosophy, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

E. REID GILBERT, Associate Professor, Department of Theatre, effective Autumn Quarter 1989 and Winter Quarter 1990.

CHARLES D. KLOPP, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

HOWARD J. MARCUM, Associate Professor, Department of Mathematics (Newark Campus), effective Winter Quarter and Spring Quarter 1990.

DAVID N. MILLER, Associate Professor, Department of Judaic and Near Eastern Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SHIGERU MIYAGAWA, Associate Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JAMES P. PHELAN, Associate Professor, Department of English, effective Winter Quarter and Spring Quarter 1990.

AMY E. SHUMAN, Associate Professor, Department of English, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

MING-DAW TSAI, Associate Professor, Department of Chemistry, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

HARRY VREDEVELD, Associate Professor, Department of German, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES G. S. WILLIAMS, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989 and Winter Quarter 1990.

## PERSONNEL ACTIONS (contd)

### Professional Improvement Leaves (contd)

S. M. TARIQ RIZVI, Assistant Professor, Department of Mathematics (Lima Campus), effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

### Professional Improvement Leaves--Change in Dates

ALEXANDER DYNIN, Associate Professor, Department of Mathematics, change leave from Winter Quarter, Spring Quarter and Autumn Quarter 1989, to Winter Quarter and Spring Quarter 1989.

KAMBIZ VAFAI, Associate Professor, Department of Mechanical Engineering, change leave from Autumn Quarter 1988, Winter Quarter and Spring Quarter 1989, to Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

### Emeritus Titles

CONSTANTINE J. CAVALARIS, College of Dentistry - Diagnostic Services, with the title Professor Emeritus, effective January 1, 1989.

MATEJA MATEJIC, Department of Slavic and East European Languages and Literatures, with the title Professor Emeritus, effective April 1, 1989.

WILLIAM A. NEWTON, Department of Pediatrics, with the title Professor Emeritus, effective January 1, 1989.

RICHARD G. OLSEN, Department of Veterinary Pathobiology, with the title Professor Emeritus, effective January 1, 1989.

MARIE E. BRITTIN, Division of Speech and Hearing Science, with the title Associate Professor Emeritus, effective January 1, 1989.

THOMAS A. WITTICH, Department of Veterinary Preventive Medicine, with the title Clinical Associate Professor Emeritus, effective April 1, 1989.

MCIVER W. WOODY, Sponsored Programs Development, with the title Associate Director Emeritus - Sponsored Programs Development, effective April 1, 1989.

ROSS CALDECOTT, Department of Electrical Engineering, with the title Research Scientist Emeritus, effective January 1, 1989.

### Emeritus Title--Cancellation

WILLIAM W. WAYSON, Department of Educational Policy and Leadership, with the title Professor Emeritus, effective January 1, 1989.

### Emeritus Title--Change in Title

THOMAS E. POWERS, Department of Veterinary Physiology and Pharmacology, with the title Chairperson and Professor Emeritus, effective January 1, 1989.

### **PERSONNEL ACTIONS (contd)**

#### Medical Staff--Appointments

OLIVE C. WILKIN, M.D., Attending Staff, Anesthesiology

JONATHAN K. WILKIN, M.D., Attending Staff, Division of Dermatology

MARYLYNN B. HERCHLINE, M.D., Courtesy Staff, Division of General Pediatrics

MELVIN W. THOMAS, M.D., Courtesy Staff, Division of Emergency Medicine

ERNEST L. DABREO, D.D.S., Attending Staff, Division of General Dentistry

JAY JACOBY, M.D., Attending Staff, Anesthesiology

ALAN R. SACOLICK, M.D., Courtesy Staff, Obstetrics and Gynecology

FRED M. ABRAMOVITZ, M.D., Courtesy Staff, Obstetrics and Gynecology

RICHARD S. JAECKLE, M.D., Attending Staff, Psychiatry

#### Medical Staff--Reappointments

JAMES W. SIMON, M.D., Courtesy Staff, Division of Urology

JOHN D. MAHAN, JR., M.D., Attending Staff, Pediatrics

LORNA F. DONOVAN, transferred from Limited Staff to Courtesy, Pediatrics

MARGARET S. HARNISH, M.D., Courtesy Staff, Obstetrics and Gynecology

Upon motion of Mr. Teaford, seconded by Amb. Wolf, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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### **RESOLUTIONS IN MEMORIAM**

Resolution No. 89-89

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

John F. Cuber

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 26, 1988, of John F. Cuber, Professor Emeritus in the Department of Sociology.

## RESOLUTIONS IN MEMORIAM (contd)

### John F. Cuber (contd)

John Cuber was born in Chicago, Illinois, on August 31, 1911. He received the A.B. degree from Western Michigan University in 1932 and the Ph.D. from the University of Michigan in 1937. He held faculty appointments at Sioux Falls College, Marietta College, and Kent State University, before coming to The Ohio State University as an Associate Professor of Sociology in 1944. Upon his retirement in 1973 he was named Professor Emeritus. Over the years he also served as Visiting Professor to the University of Kentucky, University of Michigan and the University of California at Berkeley.

Professor Cuber authored five textbooks. *Sociology: A Synopsis of Principals* (1947) was one of the most widely used in the field of Sociology for many years. *Marriage Counseling Practice* (1948) was the first book in the field. For many years he served as Editor for the Appleton-Century-Crofts Sociology Series. He was recognized in *Who's Who in America* and other similar publications and held a range of offices in state and national organizations concerned with advancement of scholarship, including the national vice presidency of Alpha Kappa Delta. He engaged in important research, trained a generation of specialists in the family field, and was one of the best lecturers the Department of Sociology has ever had.

The Department of Sociology pays tribute to the memory of John Cuber, his keen analytical abilities, his special gift as a speaker, and his concern for scholarship.

On behalf of the University community, the Board of Trustees expresses to the family its deep sympathy and sense of understanding in their loss. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

### Ralph H. Davidson

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 13, 1989, of Ralph H. Davidson, Professor Emeritus in the Department of Entomology.

Professor Davidson was born January 19, 1908, in Vandalia, Ohio. He graduated from Butler Township High School in Vandalia, Ohio, in 1926. He then enrolled at The Ohio State University where he received the B.S. degree in June 1930, majoring in Agricultural Entomology; the M.S. degree in 1931 and the Ph.D. degree in June 1935, both in Entomology.

Dr. Davidson spent his entire professional career teaching and conducting research at The Ohio State University. He was a graduate assistant from 1930-1935; Instructor from 1935-36; Assistant Professor from 1936-43; Research Associate, Research Foundation from 1943-46; Associate Professor from 1946-58; and Professor from 1958 until his retirement in 1971. Upon his retirement he was named Professor Emeritus.

Besides teaching, Ralph had a nearly continuous record of research and field experience beginning with the summer of 1930. He worked with the USDA, the Agricultural Extension Service, OSRD and as supervisor of industrial and government research grants through The Ohio State University Research Foundation. His interests in leafhopper taxonomy, field entomology, insect biology and control and insecticide development are represented in more than 75 publications, including the outstanding textbook, *Insect Pests of Farm, Garden and Orchard*, 6th Edition.

## RESOLUTIONS IN MEMORIAM (contd)

Ralph H. Davidson (contd)

Dr. Davidson was active in Gamma Alpha and Gamma Sigma Delta fraternities and Sigma Xi. He joined the Entomological Society of America and the Ohio Academy of Science in 1931 and served both in a number of capacities. He was also a member of the Entomological Society of Washington, a Fellow of the AAAS and is listed in American Men of Science and Who's Who in the Midwest. He also served a term as President of The Ohio State University Faculty Club.

On behalf of the University community, the Board of Trustees expresses to the family of Dr. Davidson its deepest sympathy in its loss. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as sincere appreciation of the Board's realization of the loss that the family, the University and his many friends and associates have sustained.

Wilbur H. Ford

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on December 19, 1988, of Wilbur H. Ford, County Agent Emeritus in the Cooperative Extension Service.

Mr. Ford was born October 20, 1895, in Adario, Ohio (Richland County). He served as a Second Lieutenant in France with the Pioneer-Infantry Division in World War I. He received his B.S. in Agriculture from The Ohio State University in 1920, his M.S. in Animal Nutrition from the University of California in 1931, and other graduate work at the University of Colorado in 1941.

Upon graduation from The Ohio State University, Wilbur Ford became agriculture manager of the Lucas County Children's Home in Maumee, Ohio. In October 1922 he began his Extension experience when he joined the faculty at The Ohio State University as a County Extension Agent, Agriculture in Highland County. Mr. Ford continued in this position until November 1947. In March 1948 he became the County Extension Agent, Agriculture in Perry County and remained in this position until his retirement in December 1951. Upon his retirement he was named County Agent Emeritus.

Mr. Ford was instrumental in organizing the first Soil Conservation District in the State of Ohio. He not only was active in agricultural endeavors but also was a promoter of the 4-H program by originating tours to various Ohio industries for 4-H club members and their families. He developed 4-H camping programs and built two camp sites in Highland County and originated one of the first 4-H bands in the state. He and his wife supervised the Ohio State Fair Youth Building for seven years.

Mr. Ford was a member of the National Association of County Extension Agents and the Ohio Retired Extension Agents Association. Wilbur Ford was the recipient of several peer awards sponsored by the Ohio County Agents Association and the National County Agents Association. Mr. Ford's career took him on travels throughout the United States, Great Britain, Scotland, and Ireland. He was highly respected by his associates throughout the world.

On behalf of the University community, the Board of Trustees expresses to the family of Mr. Ford its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

## RESOLUTIONS IN MEMORIAM (contd)

Leslie H. Miller

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 18, 1989, of Leslie H. Miller, Professor Emeritus in the Department of Mathematics.

Dr. Miller was born in Ironton, Ohio, on March 21, 1914, and graduated from Ironton High School in 1931. He attended Rio Grande College, and earned a B.S. in Mathematics Education from Ohio University in 1935. He taught in the Ironton Public Schools for two years before returning to Ohio University, where he received an M.A. in Mathematics in 1937. From then until 1940, Dr. Miller taught at Cedarville College. He then started graduate work at The Ohio State University, where he earned a Ph.D. in Mathematics in 1943.

Dr. Miller served in the United States Navy from August 1943 until he was discharged in December 1944. He returned to The Ohio State University Mathematics Department, and remained there until his retirement as Professor Emeritus in 1979.

Dr. Miller was the author of three college-level textbooks. He developed mathematical methods for computer art, and continued this activity after his retirement. He was a member of several professional societies, including the American Mathematical Society; the Mathematical Association of America; the American Association for the Advancement of Science; and the National Council of Teachers of Mathematics.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Dr. Miller. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Donald W. Riley

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 17, 1989, of Donald W. Riley, Professor Emeritus in the Department of Communication.

Dr. Riley was born on May 17, 1901, in Hamilton, Ohio. He graduated from Miami University with a B.A., and received an M.A. and Ph.D. from The Ohio State University. He began his university teaching career in 1930 as an Instructor in the Department of English at The Ohio State University. He was one of the faculty members who founded the Department of Speech when it was established in 1936.

Dr. Riley taught at The Ohio State University throughout his career and received the title Professor Emeritus upon his retirement in 1971. In addition, he was a Visiting Professor at Mexico City College for several terms. He was interested in the development of radio drama and published several articles on this topic. In addition, he was interested in correct pronunciation. For most of his career he taught courses in Voice and Diction and Radio Production. For a number of years he was the Director of the Ohio High School Speech League.

He was very active in the English Speaking Union and twice was elected President of the Columbus Branch.

Dr. Riley will be remembered by his students and colleagues as a person who was a thorough and dedicated teacher. He made many important contributions to his students personal and professional development.

April 7, 1989 meeting, Board of Trustees

## RESOLUTIONS IN MEMORIAM (contd)

Donald W. Riley (contd)

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

James I. Watters

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on January 20, 1989, of James I. Watters, Professor Emeritus in the Department of Chemistry.

Dr. Watters was born on April 4, 1908, in Broadus, Montana. He earned his B.Sc. at the University of Minnesota in 1931. In 1943, he received the Ph.D. from the University of Minnesota, having performed his research under the direction of Professor I.M. Kolthoff. During the World War II years 19543-45 he served his country as Chief of Analytical Chemistry in the Manhattan Project at the University of Chicago. Afterwards, he joined the faculty of the chemistry department at the University of Kentucky as an associate professor. He spent the summer of 1947 as a visiting professor at Northwestern University. In 1948, he joined the analytical division of the Chemistry Department at The Ohio State University as a professor. During his career he supervised the research of 14 Ph.D. and 15 M.Sc. candidates. Upon his retirement in 1978 he was named Professor Emeritus.

His research centered on the solution chemistry of metal ion complexes. Chief interests lay in the newly emerging areas of polarography and spectrophotometry. He became interested in the area of mixed ligand complex compositions and stabilities. He solved the difficult numerical problems that are encountered in analyzing these reaction systems before high speed computers were readily available. His work in this area stands as a landmark. Another subject he tackled was the interactions of polyphosphates with metal ions. Here again he achieved a high degree of success in unraveling the complicated chemical behavior of difficult systems.

Dr. Watters was a summer consultant for the USAID at the Punjab University, India, 1965; Annamalai University, India, 1966; and at the UJJAIN University, India, 1967. He as an editor of Analytical Chemistry of the Atomic Energy Project in 1951, and a contributor to The Treatise on Analytical Chemistry.

He was a member of the American Chemical Society, AAAS, Sigma Xi, Zeta Psi, and Phi Lambda Upsilon. He is recognized in Who's Who in the Midwest, Who's Who in American, Who's Who in the World, and American Men and Women of Science.

On behalf of the University, the Board of Trustees expresses to the family its deep sympathy. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

Upon motion of Amb. Wolf, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## STUDENT AFFAIRS COMMITTEE REPORT

Amb. Wolf:

Mr. Chairman, the Student Affairs Committee met this morning and heard a report of and reviewed the Amendments to the Code of Student Conduct. These rules really updates based upon experience factors to the various sections of the Code. I move for the adoption of the suggested changes or amendments to the Code.

### AMENDMENTS TO THE CODE OF STUDENT CONDUCT

Resolution No. 89-90

Synopsis: The Student Affairs Committee recommends the approval of the following amendments to the Code of Student Conduct.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Code of Student Conduct as approved by the University Senate; and

WHEREAS the proposed changes in the Code of Student Conduct were approved by the University Senate on January 28, 1989:

### AMENDMENTS

#### 3335-25-01 Prohibited conduct.

(A), (B), (C) unchanged.

(D) Dangerous weapons or devices.

Use, storage, or possession of dangerous weapons or devices including, but not limited to, firearms and fireworks unless authorized by an appropriate university official or permitted by a university policy.

Balance unchanged.

#### 3335-25-03 Policies.

Established policies and rights exist to ensure an environment conducive to equal treatment and quality living for all members of the university community. Students violating university policy may be subject to disciplinary action.

(A) through (G) unchanged.

(H) Drug and alcohol policy.

The illegal use, possession, sale, manufacture, or distribution of drugs is prohibited by the Ohio state university. In addition, the misuse of substances which present physical or psychological hazards to individuals is prohibited.

Those choosing to provide, sell, or otherwise permit consumption of alcoholic beverages at their event shall comply with applicable state and local laws and university policies regulating alcoholic beverages.



**AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)**

**3335-27-03 Notice of proceedings.**

If a hearing is to be held, written notification will be delivered to the last known address of the student, either by certified mail, first class mail, or by hand-delivery, no fewer than seven calendar days prior to the hearing. In residence hall cases, notification of hearings will be placed in student mailboxes or hand delivered no fewer than seven calendar days prior to the hearing. The notification will include the charge, and the date, time, and location of the hearing, the designated hearing officer or panel, a statement of the accused's rights, and information on the hearing procedures. The accused student may waive the notice period, request a postponement for reasonable cause, or request a hearing separate from other accused persons. Request for a postponement or separate hearing must be received by the person sending the notification at least one day before the scheduled hearing.

**3335-27-04 Hearing procedures.**

Students have a right to fair hearings. Although the procedural requirements are not as formal as those existing in the civil courts of law, to ensure fairness, the following procedures apply and will be included within hearing notices:

- (A) Hearings are restricted to those directly involved or those requested by the accused or hearing officer or panel to attend. The hearing officer may take reasonable measures to assure an orderly hearing, including removal of persons who impede or disrupt proceedings.
- (B) The accused student may have a person present to advise him or her. The adviser may only counsel the student and may not actively participate in the hearing, unless clarification is needed as determined by the hearing officer or panel.
- (C) The accused may submit a written statement, may invite witnesses to attend on the accused's behalf, may ask questions of witnesses called by others, and will be notified of witnesses to be called. The university may present witnesses as well as question those presented by the accused.
- (D) Written statements signed by a witness(es), and verified as being by that witness(es) by the designated hearing officer or coordinator of the panel, may be used if, for good reason, the witness(es) cannot attend the hearing.
- (E) University hearings, unlike proceedings of courts of law, do not require conclusive proof; instead, the greater weight of the evidence is sufficient for the hearing officer or panel to decide if a violation of the code has occurred and to impose a sanction.

**3335-27-06 Record and nature of proceedings.**

A record consisting of written notes, tape recording, or other method selected by the hearing panel or officer, will be made of all hearings. This record will be available to the accused during the appeal period and can be copied at his or her expense. A written notice of the decision and information regarding appeal procedures will be sent to the accused student. In general, materials relating to a disciplinary action are confidential and may be made available by the designated hearing officer or coordinator of the panel only to those who have a valid need to know, e.g., disciplinary officers, the vice president for academic affairs and provost, and other university officials who have a demonstrated need to know. The policy governing confidentiality and release of records is printed in the quarterly master schedule of classes and available from the office of student life.

**AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)**

**3335-27-07 Appeal.**

A student found to have violated this code has the right to appeal the original decision. Appeals must be filed within fourteen calendar days from the date of the sanction decision letter. The following guidelines apply:

(A) through (C) unchanged.

(D) A student is allowed active representation by an advisor when making an appeal of proceedings which resulted in suspension or dismissal.

(E) Appeals proceed through the following channels:

(1) In residence halls, decisions of living unit commissions are appealed to the hall director; decisions of the hall directors are appealed to the area coordinator; decisions of area coordinators are appealed to the associate director of residence and dining halls for residence life.

(2) Decisions of hearing officers or panels appointed by the dean of student life are appealed to the dean of student life; decisions of cases heard by the dean of student life are appealed to the vice provost for student affairs.

(3) Decisions of the university court in disciplinary hearings are appealed to the dean of student life.

(4) Decisions of the committee on academic misconduct are appealed to the vice president for academic affairs and provost.

(F) A new hearing by a different hearing officer or panel shall result when the person designated to decide appeals determines that there are substantial new facts that were unavailable at the time of the hearing. The determination of this panel or officer shall in no way be influenced or bound by the result of the original hearing.

**3335-29-04 Suspension and dismissal.**

(A) Suspension.

Suspension is a sanction by which the student is involuntarily separated from the university for a period not to exceed three full academic quarters following the effective date specified in the sanction letter. Eligibility for reinstatement is restored upon expiration of suspension.

(B) Dismissal.

Dismissal is a sanction by which the student is involuntarily separated from the university for four full quarters or more following the effective date specified in the sanction letter. The dismissed student must apply for reinstatement. Reinstatement of the student at the university after dismissal is not guaranteed.

(C) Unchanged.

**AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)**

**3335-29-07 Other sanctions.**

Other sanctions that the hearing officer or panel considers appropriate to the student and the conduct violation in question may be imposed. For example, research assignments, community service projects, special workshop participation and/or referral to medical resources or counseling personnel may be assigned as recommended sanctions or as conditions to another sanction. In cases of academic misconduct, a lowered or failing grade may be recommended for the academic coursework. In residence halls, other sanctions may include contract termination or reassignment to another room. Non-residence hall hearing officers or panels may recommend sanctions of this type to the office of residence life.

Failure to meet requirements of any sanction in the time allotted or a repetition of misconduct may result in an extension of the period of sanction or imposition of a more severe sanction.

**3335-31-02 Committee on academic misconduct.**

- (A) The committee shall investigate or establish procedures for investigation of all reported cases of student academic misconduct and decide upon suitable disciplinary action. However, the committee does not hear cases involving academic misconduct in professional colleges having a published honor code. These colleges shall follow their own codes and procedures which can be obtained in their respective central offices. The committee may, in its discretion, refer cases to the university judicial panel if it determines that the academic misconduct allegation is incidental to some other misconduct.
- (B) "Academic misconduct" is defined as any activity which tends to compromise the academic integrity of the institution, or subvert the educational process. Examples of academic misconduct include, but are not limited to:
- (1) Violation of course rules as contained in the course syllabus or other information provided the student; violation of program regulations as established by departmental committees;
  - (2) Providing or receiving information during quizzes and examinations such as course examinations and general examinations; or providing or using unauthorized assistance in the laboratory, at the computer terminal, or on field work;
  - (3) Submitting plagiarized work for an academic requirement. Plagiarism is the representation of another's work or ideas as one's own; it includes the unacknowledged word for word use and/or paraphrasing of another person's work, and/or the inappropriate, unacknowledged use of another person's ideas;
- (4) through (7) unchanged.
- (C) All cases of suspected misconduct shall be reported to the committee. The committee also shall investigate cases of lax or irregular examination methods and report findings to the vice president for academic affairs and provost. Students have the obligation to report suspected misconduct or irregular or lax examination methods. The committee may impose any code sanction. The committee consists of:
- (1) Fifteen regular faculty members elected by the faculty council for three-year terms; beginning with summer quarter, the election to be held annually so that

**AMENDMENTS TO THE CODE OF STUDENT CONDUCT (contd)**

five members will retire each year. No university faculty member shall serve more than two consecutive terms;

- (2) Five graduate student members appointed in the summer quarter by the president of the council of graduate students, with the approval of the council of graduate students, for a one-year term beginning with the autumn quarter;
  - (3) Five undergraduate student members appointed in the spring quarter by the president of the undergraduate student government, with the approval of the undergraduate student assembly, for a one-year term beginning with the summer quarter;
  - (4) The dean of student life or designee, without vote; and
  - (5) A coordinator, appointed by the vice president for academic affairs and provost, without vote, and charged with assisting the committee in administrative matters. The coordinator does not participate in the decisions of the committee.
- (D) The committee on academic misconduct establishes panels from its membership with student/faculty ratios at least as great as that of the full committee to conduct hearings and make decisions with the same authority as the full committee on academic misconduct.
- (E) The committee on academic misconduct establishes rules and procedures to conduct hearings, including the definition of a quorum.

(Details of rule 3335-5-487 of the Administrative Code, which defines the committee on academic misconduct, and committee procedures are available from the office of the vice president for academic affairs and provost.)

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Code of Student Conduct be adopted as recommended by the University Senate.

Upon motion of Amb. Wolf, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**STUDENT AFFAIRS COMMITTEE REPORT**

Amb. Wolf:

Mr. Chairman, usually at this moment we have asked the presidents of our student organizations to come forward and give us some observations if they have any that have developed in the last 30 days. Steve Dibert is President of the Interprofessional Council.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Steve Sloan:

You can tell I am not Steve Dibert. I am Steve Sloan. Steve is doing surgery this month and wasn't able to attend. I can remember the last time I spoke to you, I think I was more nervous than I am now. I am not going to say that I think things are different now that we have two students of the Board of Trustees. One of the whom is a good friend of mine, Sophia Paige. Sophia and I met last year in the first day of Medical School. We were anatomy partners and we spent many long frustrating and sometimes rewarding hours in the labs.

What I want to do today is to review some of the things that the IPC has done over the last year. Some of the things you know about and some of them I think might be new. First, what we are most happy about is that we were able to work successfully with the Undergraduate and the Graduate Student Governments to bring five student Trustee candidates' names to the Governor. We are very happy about the results, I am particularly happy. As an organization, we are happy to see that a very large percentage of the applicants were actually professional students. We would like to think that part of this was due to the fact that we were able to give an application to every single graduate student who was eligible to apply. We are very happy about that. Another role of IPC is to elect students to University-wide councils so that we can get outside of our professional schools. This year I think our representatives have been more active than they have been in the past in representing our interest, which is what we are particularly interested in. As you may know, one of our concerns has been the ticket priorities. As an undergraduate when you are a freshman you have a certain ranking. When you become a senior your ranking moves up higher. That is not the case for professional students. I don't believe that is the case for graduate students. We were wondering why. Deborah Katz, a law student, led a council that became active in this issue and she learned a lot more about the ticket priorities and situations than she really wanted to. I think we have a better understanding for exactly why professional students don't get priorities, and also why the ticket office really isn't particularly interested in giving us priority. It would mean changing the way things are done now. It would be fairly complicated, but we want it. We now understand the issues and what is involved. Now we want to see some action taken, even though it is going to cause them some hassles.

Another area of active interest, I think for most people, is traffic and parking. I think it is a never ending issue. A representative Naveed Ismail, who is a third year medical student, also learned a lot more about the traffic and parking situation. He recently told us each parking spot cost over \$10,000. We were a little surprised about that. Besides learning a lot, he was able to get some action done. There was one lot that was a "B" lot at one point, which is staff, and that lot was supposed to be a student lot. He was able to get that changed to a student lot. We are pretty happy about that.

The next issue is the proposed tuition increase. After we learned about that, Steve sat at the computer and whipped out a letter to all the professional students which we delivered to them. Basically, we outlined the situation and what the results would be. We asked them to write to the various elected officials to see if we could avoid those complications. I am happy to say that last night I was at a medical student council meeting, and I learned that signatures have been collected. It looks like we are going to be having some action on that, directly from professional students.

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Steve Sloan: (contd)

Another thing that happened recently, the quilt that was brought here for the AIDS project. We were fortunate enough to have Steve Dibert represent us there and to read 30 names of the AIDS victims.

There are two other issues that we are currently interested in. The first one is the bookstore pricing. I think it is sort of a tradition that text books cost a lot of money and students complain about the money. In particular, the professional schools have a situation, at least in the Medical School, where there is only one source. The Medical School has a monopoly. If I was in their situation, I would do what they do. They charge a lot of money. What we want is to learn about the problems. We had our representative to the Bookstore Council--I don't know exactly what that is -- look into it. He has talked to them a little bit. Steve has talked to them. Unfortunately, we have had different stories given. Sometimes they would tell us, "Well, we just take the recommended price that the distributors tell us." Other times they say, "No, we just mark it up one third." We are not very happy with that situation. We don't feel we are getting a complete accounting of what is going on. Some of the things we are interested in doing are comparing the prices at other student bookstores across the country, and also to really find out what the policy is. At one point we believe the situation was that bookstores needed a certain profit. One of the easy ways to do that was to go to their monopoly source, which was the med school bookstore and just boost the prices. I recently paid \$120.00 for a textbook. The paper wasn't even good quality. It is upsetting. We are going to try to learn about that issue, and see if there really is a problem.

The last issue it is sort of our newest issue -- is student insurance. Recently, as a second-year medical student we had lectures on health care financing and insurance. Just in passing, one of our professors called our student insurance, non-insurance. Not knowing anything about insurance, I didn't know why he said that. I of course became concerned, and I want to know why he thinks it is non-insurance, and to find out if we really aren't covering our students adequately. I know our student insurance prices are very inexpensive, and if we raise those prices we may lose students applying for it. Do we really have adequate coverage for the things that are necessary? Right now I know a little bit about it. There is a \$20,000 stop off. If a student were to have a serious accident or illness, which would easily cost over \$25,000, they would not be covered. Twenty five thousand dollars, I think might be inadequate, although I am not sure. That is one of the things we will be looking into on the insurance.

Finally, the last topic is just the IPC itself. I have only been involved for about a year, and Steve has been involved for about 2 years. He continuously tells me that we were a very weak, unorganized organization. I can only believe him because I do not know. Now I know we have an office, we have a telephone, we have a budget, and we are very happy about that. At our last meeting, we had well over 80% attendance. Our elections are coming up, and I am hoping that Steve will stay on, and we will have some continued leadership. Thank you, very much. Also, about the insurance issue -- if any of you have advice or could tell me where to get more information, please let me know.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Scott:

You can stop in Archer House and make an appointment to see me.

Amb. Wolf:

The Council of Graduate Students.

Mr. Roger Musgrave:

The first thing CGS would like to accomplish with its report is to congratulate Ms. Davis, and Ms. Paige on their selections to serve with you folks, and assure them, in your presence, of our confidence in their ability and motivation to serve all of the students on campus.

The Council's primary spring activity is the Graduate Research Forum. It is scheduled a week from tomorrow, April 15 from 8:30 a.m. until 2:00 p.m. in the lower level of University Hall. It is intended primarily to provide a means for graduate students to have the experience of presenting their work in a setting that is much like the professional conferences they will attend down the road in their careers. We hope this is a kinder and gentler setting than they will face down the road. We are able to offer the paper and presenters chosen as outstanding in each of the ten graduate school areas a \$500.00 cash prize. We are sure that incentive helps us get a little bit better participation, but it is primarily intended to provide the opportunity to share research and gain that experience for our graduate students. We had primarily positive feedback. We know that some of the visiting faculty members we brought in as guest judges told us they intend to do everything they can to see something like this happen on their own campuses. We are relatively proud of it, and we appreciate the support the Graduate School and the University has given us in being able to do this every year.

Our elections will be held April 30. Just real briefly, in the past we have had non-contested elections for our officers' positions. We are very happy that this year both the President and Vice President offices have more than one candidate. We'd like to think that is an indication that folks are becoming more involved, which is not to say that we think we have got anywhere the problem of apathy that a lot of campuses have. But we think it can be nothing but good for the group. We would like to thank Dean Koenigsknecht for getting us a quick answer on whether or not the graduate school would fund the Vice President position next year with a graduate associateship. The answer was yes, and we appreciate it because we know his headaches with projecting his own budgets. It makes it a lot easier for us to know that we are not looking for a volunteer to put in the hours.

The teaching associate forum series is continuing. We just had one last night. It is a joint effort by the Center for Teaching Excellence, the Council of Graduate Students, the Graduate School, and the Undergraduate Student Government meant as a forum for folks to discuss problems that TA's face. They are kind of unique problems that they never have run into before, and they need to learn how to handle. Attendance continues to increase, we continue to get good press on it, and we think it helps both the graduate students that are trying to become better teachers, and the undergraduates who have to put up with the TA's who are trying to become better teachers.

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Musgrave: (contd)

The National Association of Graduate and Professional Students, which has the interesting acronym of NAGS, which may become an even more interesting acronym if it continues to grow and become an advocacy group for graduate students. At any rate, we had the national conference in Miami, from March 2-5. Representing Ohio State were: our four officers -- myself, David Doerfert, Benetta Lucius, and Luke Evans; last year's NAGS regional political coordinator, Julie Franklin, who is a Ph.D student in physics; and Jeffery Leptak, a Ph.D student in Education, who was our regional conference coordinator. It wasn't just a conference, it was an adventure because we were booked on the conference airline, which happened to be Eastern, and we happened to be booked out of Miami the day the strike started. We learned a lot in Miami. For those of you who don't know, NAGS was founded in Columbus right here on this Campus in 1986 by five TA's from different schools including Ohio State who were here for a TA training conference. The organization was created at a table in the Varsity Club on Lane Avenue. What is fascinating about that is in those three years the group has grown from those five people to a group representing 89 universities, now representing 280,000 graduate students. That is incredible. I can't think of any professional organization in one of the disciplines that has ever had a growth like that. We are real confident that it is going to be a very real, very viable organization. We now have our bylaws and constitution in place which has allowed us to apply with the IRS for the non-profit status that we will need to generate decent funding to do some of the programming we want to do.

What we learned at this year's conference is that in many regards graduate students at Ohio State are relatively well off. We heard a lot of comment from people elsewhere about things we frankly take for granted. People don't have graduate student housing, evening classes that they can work around their full-time jobs, and access to a student comprehensive health center. While we have complaints about our health center, we have one. I guess what our delegation wants to say is thank you to this University for providing a lot of things, and for being sensitive in a lot of cases. We also discussed items that we find ourselves lacking, as are many other student groups. Adequate day care facilities and health insurance provisions are becoming emergent topics of discussions. Funding issues are also important everywhere. We talked with folks from Michigan where TA's have been unionized for years. We talked with folks from Michigan State where they just organized last year. In essence, the conference was primarily an information exchange. The last thing about the conference, there was a resolution past in reference to Senate Bill 3 and House resolution 660, which for those of you who don't know, would tie eligibility for educational assistance to, and how is this for a phase, "mandatory voluntary service." I will read the resolution to you. We will have more to say about it later.

WHEREAS the National Association of Graduate Professional Students firmly support the right of all people to an education;

WHEREAS NAGS supports the expansion of voluntary community service programs;

WHEREAS NAGS holds that education is a right and not a privilege;

WHEREAS all of these ideas are violated by SB 3 and HR 660 because such bills require civilian or military service in return for providing educational benefits:



## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

BE IT RESOLVED, That the National Association of Graduate Professional Students calls for the rejection of Senate Bill 3 and HR 660 and any other bills that would require civilian or military service in return for providing educational benefits.

To close let me say that one of the charges of the Council of Graduate Students is also to make efforts to improve the social environment for graduate students at Ohio State. We tend often to almost ignore that and focus on the professional and academic issues. We are going to make an attempt to have the first, perhaps annual, graduate spring picnic. The only details we have are May 21 on the south lawn and patio of Drake Union. You are certainly more than welcome and I will let you know if there will be free food. Are there any questions?

Amb. Wolf:

Thank you, Roger. Athena Yiamouyiannis is President of the Undergraduate Student Government.

Ms. Athena Yiamouyiannis:

Mr. President, Mr. Chairman, Members of the Board, good afternoon. First of all, USG would like to welcome our two new student Trustees. After years of hard work it has finally become a reality, and Laurel A. Davis and Sophia L. Paige, USG would like to present these flowers to each of you in recognition of your appointment. We look forward to working with you throughout your term as members of the Board.

I would like to begin my report of the Undergraduate Student Government activities by discussing the USG rally on the Oval which was at noon yesterday. The rally was to protest the proposed tuition increase. A mock funeral was held on the Oval.

The effigy was placed in a coffin and the funeral procession march went from the middle of the Oval to the William Oxley statue. At that time, the coffin was set down and Vice President Scott Mounts gave the Eulogy. The event symbolized the implication that higher tuition is the death of higher education. We had an excellent turnout and we had great media coverage. Channel 4, Channel 6, and Channel 10 were there, and we also got on the front page of the local section of the Columbus Dispatch. They had a picture of students carrying the coffin and also other students holding signs up protesting the proposed tuition increase.

In addition, we had a table set up on the Oval throughout the day where students could come up and sign letters to their senators protesting the tuition increase. In addition, we had a petition for Governor Celeste where students could also voice their opinion. And also, for you, as members of the Board of Trustees, these are the letters that the students wrote yesterday afternoon protesting the tuition increase.

I would hope that you will take this into consideration when you are making a decision on a tuition increase for next year. As students in student government and as students of the University, we have been trying our hardest to get the State Senators -- and before the State Representatives -- to listen to us and to help us in funding higher education.

### **STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Ms. Yiamouyiannis: (contd)

In conjunction with our lobbying efforts, USG is working with the Ohio Students Association. This is a group made up of student leaders from around the State. We are hosting a luncheon downtown on this coming Monday, and so far we have 25 State Senators or their aids that will be attending in addition to the University presidents and the OSA student leaders. What we are doing is appealing to the Senate for additional funds and stressing, again, the importance of more funding for higher education.

In other activities, USG has been involved with the Names Project Quilt. In conjunction with other student organizations, we made up buttons that said "Remember the Names Project Quilt." We distributed those to increase awareness and so that we could get more students and community members out to see the AIDS quilt. We also had volunteers that helped out at the project, as well.

In other USG activities, Matt Hecmanczuk, who is the USG Director of Elections, has been working with the student election committee to organize the USG elections. They have been working also on hosting the four debates, there is still one to come. Our elections will be held on April 11, 12, and 13. The new administration will be taking over during the third week of May. That concludes my report.

Amb. Wolf:

Thank you very much, Athena. Mr. Chairman, that concludes the presentation of the Student Affairs Committee.

(Several hundred signed letters were presented, the format of which is reproduced in Appendix XXXII, page 1023.)

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### **AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mr. Teaford:

As I think you know, the Director of Agriculture sits as a member on the Committee on Agriculture and his Assistant Director, Tony Logan, was with us today. He began the meeting by announcing that the Governor has directed a \$100,000 grant toward the Farm Enhancement Program. Which I might say is only one-fifth of what he owes us, but I think we will get that. This is coming out of a fund that is controlled by the department and Farmers Home Administration and the moneys will be used for low income farmers which Shirley assures me will not be a difficult task to find.

The bulk of our meeting was taken up with the report by David Hansen with regard to the international activities in the College of Agriculture. Those programs began at the time of land lease-back in the early '50's. And at that time, Ohio State concentrated almost all of their international efforts in Brazil and in India. Those programs nearly died out in the '60's and '70's. But in the '80's have been resumed, I think in large part for the same reason that they were started, because of requests by the United States Government to us.

**AGRICULTURAL AFFAIRS COMMITTEE REPORT (contd)**

Mr. Teaford: (contd)

Needless to say there are -- other than the obvious humanitarian reasons for being involved there, selfish reasons for the University to be involved in that kind of activity as well, because of the increased emphasis on international trade and general international enrollment. It is also interesting to -- we were also told that the Department of Agricultural Economics has in the past twenty-five years been involved in international finance work in some thirty-eight countries around the world.

Currently, there is some \$3 million in sponsored grants. They are principally concentrated in Uganda, Dominican Republic, and Burma (which I guess is temporarily suspended because of their current difficulties.) We also had a discussion on what motivates us to go for grants. And what does not do it is just simply chasing contract money. We will always seek grants in the areas where we are particularly strong. Because obviously that enhances the whole educational mission. Also, we like to stay with the same countries, over and over again. I think once you have learned the cultural biases and differences it is useful to continue that expertise.

We also briefly heard about an agricultural intern program which involves a great number of students particularly in European countries coming here and also our students going abroad. We also received a report that showed that there are some 61 countries represented among the students in the College of Agriculture. Less we think that is a small insular program.

Finally, a kind of interesting note, one of the reasons why these international programs have very greatly benefitted Ohio and our nation, has to do with the fact that most all of the crops that were raised in the United States are not indigenous to this country. From time to time it is necessary in order to get new species or new kinds of crops, we must get germ plasm from species abroad. It has been possible to do this because of the international nature of these programs. So it is a very important part of sustaining our own agriculture.

Mrs. Bowser:

I am so proud of my city friend. He is doing very well. You have learned a lot.

Mr. Teaford:

I have indeed learned a lot. Mr. Chairman, that completes my report.

(See Appendix XXXIII for complete text of The Ohio State University College of Agriculture International Programs Update, page 1025.)

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## **FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Kessler:

The Fiscal Affairs Committee began by hearing a report on the capital project procedures from the program of requirements through design and construction. I'm certain that all of us will agree that while these state procedures are comprehensive, they require a significant amount of staff effort as well as patience on the part of our people at this University.

We also had a discussion of the various issues which will impact the budget guidelines and recommendations for Fiscal Year 1989-90 which are scheduled to be presented to this Board at our May meeting.

In addition to this report, the Committee is recommending the following resolutions:

### **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 89-91

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summaries for January and February 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University Development Fund, and The Ohio State University Foundation during the months of January and February 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

# **REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

## **SUMMARY FOR JANUARY 1989**

### Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	116	\$10,524,497.61
Engineering Experiment Station	87	\$ 1,036,244.00
Total	203	\$11,560,741.61
The Ohio State University Development Fund		
Establishment of Named Funds		
The Rita C. and Oscar L. Thomas, Sr. Fund (College of Business)		\$ 100,000.00
The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County (Scholarships)		\$ 22,984.19
The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund (Provide or supplement educational costs toward a degree for former varsity football players and coaches and their spouses and first and second generation children)		\$ 17,850.00
The Sue Ann Dowell Schott Agricultural Fund (Fund graduate fellowships, sponsor seminars or provide support for programs)		\$ 17,687.50
The Ohio State University Marion Campus Founders Scholarship Endowment Fund (Scholarships)		\$ 15,646.68
The Virginia A. Arnold Scholarship Fund in Elementary Education (Scholarships)		\$ 15,000.00
The Dr. Henry J. Detmers Fund in Veterinary Medicine (Discretion of the Dean)		\$ 15,000.00

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**SUMMARY FOR JANUARY 1989 (contd)**

Background (contd)

**Change in Name and Description of Named Fund**

From: Robert E. Oscar Professorship in International  
Business Fund  
To: The Robert E. Oscar Scholarship Fund in  
International Business

**Change in Description of Named Fund**

The Sphinx Endowment Fund

**SUMMARY FOR FEBRUARY 1989**

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	98	\$ 6,335,011.00
Engineering Experiment Station	57	\$ 152,529.00
Total	155	\$ 6,487,540.00

**The Ohio State University Development Fund**

**Establishment of Named Funds**

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund (Support research and facilities)	\$ 363,318.85
Texnikoi-Arthur C. Avril Endowment Fund (Provide further growth for fund and scholarships for members of the Texnikoi Chapter)	\$ 129,000.00
Robert M. Zollinger Lectureship Fund (Support a distinguished lectureship within the Department of Surgery)	\$ 64,400.00
Donald H. Russ Scholarship Fund (Scholarships for students from Carroll County, Ohio)	\$ 50,000.00
Wells Nursing Scholarship Fund (Scholarships and recruitment)	\$ 30,000.00

April 7, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**SUMMARY FOR FEBRUARY 1989 (contd)**

Background (contd)

**The Ohio State University Development Fund (contd)**

**Establishment of Named Funds (contd)**

**The Devon W. Meek Industrial Lectureship and  
Undergraduate Research Poster Presentation  
Fund**

(Support a lectureship for a distinguished  
researcher from the industrial community  
who will present at least one chemistry  
department seminar)

**\$ 23,000.00**

**The Joseph P. Kinneary Scholarship Fund  
(Financial assistance to students enrolled  
in the College of Law)**

**\$ 17,143.00**

**J. Walter Severinghaus Scholarship Fund  
(Scholarships to students pursuing the  
Master of Architecture degree)**

**\$ 16,700.00**

**Change in Name and Description of Named Fund**

**From: The Martha Miller Lotman Memorial Scholarship Fund  
To: The Martha Miller Lotman Scholarship Fund**

**Change in Description of Named Fund**

**Metropolitan Washington, D.C., Alumni Scholarship Fund**

**The Ohio State University Foundation**

**Approval of Description and Establishment of Fund**

**Schoenbaum Scholars Program Fund**

**\$1,000,100.00**

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - January 1989

**Federal Research Contracts/Grants**

\$1,545,000.00 - Department of Energy, Argonne, Illinois, High Energy Physics, Department of Physics (High Energy Physics Group: S. Durkin, H. P. Kagan, R. D. Kass, K. D. Lane, T. Y. Ling, A. J. Niemi, W. F. Palmer, S. S. Pinsky, N. W. Reay, K. Reibel, T. A. Romanowski, J. Shigemitsu, R. A. Sidwell, N. R. Stanton, G. Steigman, K. Tanaka and W. W. Wada), 1 January 1989 through 31 December 1989. (Project 762116 - Continuation)

\$359,207.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cooperative Human Tissue Network, Comprehensive Cancer Center and Department of Pathology (K. Clausen) and Comprehensive Cancer Center and Department of Physiological Chemistry (R. W. Trewyn), 1 January 1989 through 31 December 1989. (Project 765857 - Continuation)

\$294,213.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neurotransmitters and Inflammatory Mediators in Tooth Movement, Orthodontics (Z. Davidovitch), 1 December 1988 through 30 November 1989. (Project 767223 - New)

\$263,746.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Development of Animal Models Infected with Retroviruses for Testing of Antiviral Agents, Department of Veterinary Pathobiology (L. E. Mathes, R. G. Olsen and M. J. Tarr), 16 December 1988 through 15 December 1989. (Project 765188 - Continuation)

\$200,000.00 - International Development Cooperation Agency, Agency for International Development, Washington, D.C., Philippines Rural Financial Services Project, Department of Agricultural Economics and Rural Sociology (R. L. Meyer), 1 January 1989 through 31 December 1990. (Project 763301 - Continuation)

\$196,000.00 - National Science Foundation, Washington, D.C., A Program on Electronic Structure, Department of Physics (K. G. Wilson), 1 October 1988 through 30 September 1989. (Project 767182 - New)

\$180,000.00 - National Science Foundation, Washington, D.C., Genetic Analysis of Bacterial Development, Department of Microbiology (K. E. Kendrick), 1 February 1989 through 31 January 1991. (Project 767258 - New)

\$176,205.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Psychopathology and Grief in Children Post-Parental Death, Department of Psychiatry (E. B. Weller), 1 February 1989 through 31 January 1990. (Project 767244 - New)

\$173,128.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Neural Control of Human Intestinal Mucosa, Department of Physiology (H. J. Cooke), 1 January 1989 through 31 December 1989. (Project 765037 - Continuation)



## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$164,319.00 - National Science Foundation, Washington, D.C., Finite Deformation Hygrothermomechanical Response Evaluation of Geologic Media, Department of Engineering Mechanics (S. H. Advani and J. K. Lee), 1 January 1989 through 31 December 1990. (Project 767266 - New)

\$164,000.00 - National Science Foundation, Washington, D.C., Kinetics, Spectroscopy and Mechanistic Studies of Carbenes, Biradicals and Radicals, Department of Chemistry (M. S. Platz), 1 February 1989 through 31 January 1990. (Project 767259 - New)

\$157,666.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Pre- and Post-Operative T-Cell Function, Department of Surgery (R. M. Ferguson and C. G. Orosz), 1 February 1989 through 31 January 1990. (Project 766505 - Continuation)

\$156,269.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Immunoprevention of Human T-Cell Leukemia Virus-I Infection, Department of Veterinary Pathobiology (R. G. Olson and L. E. Mathes), 1 December 1988 through 30 November 1989. (Project 765057 - Continuation)

\$153,967.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Thermodynamic and Diffusivity Measurements in Potential Ultra-High Temperature Composite Materials, Department of Materials Science and Engineering (J. D. Cawley and G. R. St. Pierre), 1 January 1989 through 30 September 1989. (Project 766346 - Continuation)

\$144,287.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, B[a]P-Metabolism and Modification of DNA in Human Skin Xenograft, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 1 January 1989 through 31 December 1989. (Project 766549 - Continuation)

\$143,388.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Interdisciplinary Research on Wear of Materials, Department of Materials Science and Engineering (D. A. Rigney), 1 October 1988 through 30 September 1989. (Project 767230 - New)

\$141,386.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Hypertension and Congestive Heart Failure: Genetic Model, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (S. A. McCune), 1 December 1988 through 30 November 1989. (Project 766383 - Continuation)

\$125,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Optical Scattering Studies, Electrosience Laboratory, Department of Electrical Engineering (S. A. Collins, Jr.), 1 October 1988 through 30 September 1989. (Project 764394 - Continuation)

\$115,000.00 - Department of Energy, Argonne, Illinois, Hydrological and Geochemical Response and Recovery in Disturbed Arctic Ecosystems, Byrd Polar Research Center and Department of Agronomy (K. R. Everett), 1 January 1989 through 31 December 1989. (Project 764231 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$108,000.00 - National Science Foundation, Washington, D.C., Structure and Dynamic Behavior of Selected Organolithium Compounds, Department of Chemistry (G. A. Fraenkel), 1 January 1989 through 31 December 1989. (Project 767225 - New)

\$104,342.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Ethanol Disturbance of Gastrointestinal Nervous System, Department of Physiology (J. D. Wood), 1 February 1989 through 31 January 1990. (Project 765885 - Continuation)

\$96,239.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Engineering Calculations for Communications Satellite Systems Planning, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton) and Department of Industrial and Systems Engineering (C. H. Reilly and C. A. Mount-Campbell), 1 January 1989 through 30 September 1989. (Project 762552 - Continuation)

\$93,420.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Stromal Defects in Retrovirus-Induced Myelosuppression, Department of Veterinary Pathobiology (G. J. Kociba), 20 December 1988 through 30 November 1989. (Project 767232 - New)

\$92,000.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Controller Design Approaches and Evaluations, Department of Electrical Engineering (U. Ozguner and S. Yurkovich), 1 December 1988 through 30 September 1989. (Project 766464 - Continuation)

\$88,375.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Demodulation Processes in Auditory Perception, Division of Speech and Hearing Science (L. Feth), 1 December 1988 through 30 November 1989. (Project 767249 - New)

\$85,061.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Fentfluramine and Methylphenidate in Mental Retardation, Nisonger Center (M. G. Aman), 1 February 1989 through 31 January 1990. (Project 767185 - New)

\$80,080.00 - Department of Agriculture, Science and Education, Washington, D.C., Recovery of Nitrogenase from Oxygen Inactivation, Department of Microbiology (F. R. Tabita), 15 January 1989 through 31 August 1989. (Project 767274 - New)

\$78,921.00 - National Science Foundation, Washington, D.C., Computer Analysis and Simulation Laboratories for Physics Majors, Department of Physics (R. D. Knight), 1 January 1989 through 31 December 1989. (Project 767242 - New)

\$74,254.00 - National Science Foundation, Washington, D.C., Computer Graphics Laboratory for Teaching Geological Science, Department of Geology and Mineralogy (J. J. Daniels and T. J. Wilson), 15 January 1989 through 31 December 1990. (Project 767262 - New)

\$65,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Studies of Nonlinear Dynamics of Fluid Systems, Department of Physics (C. D. Andereck), 1 December 1988 through 30 November 1989. (Project 767269 - Continuation)

April 7, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$64,709.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Penetration of Jets into a Turbulent Supersonic Airstream, Department of Aeronautical and Astronautical Engineering (J. D. Lee), 20 February 1989 through 19 February 1990. (Project 767276 - New)

\$64,396.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Intestinal Bypass Surgery in Hibernation, Department of Physiology (H. J. Cooke), 1 January 1989 through 31 December 1989. (Project 765844 - Continuation)

\$56,362.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Targeting of Organellar Protein Synthesis Factors, Department of Biochemistry (C. A. Breitenberger), 1 February 1989 through 31 January 1990. (Project 766576 - Continuation)

\$56,000.00 - National Science Foundation, Washington, D.C., Anodic Oxidation Studies and Their Applications to Organic Synthesis, Department of Chemistry (J. S. Swenton), 1 July 1989 through 30 June 1990. (Project 766494 - Continuation)

\$54,303.00 - National Science Foundation, Washington, D.C., Honey Bee Division of Labor: A Behavioral Genetic Analysis, Department of Entomology (R. E. Page, Jr.), 1 March 1989 through 28 February 1990. (Project 766637 - Continuation)

\$51,786.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanisms of Mercury Toxicity and Carcinogenicity in Human Cells, Department of Microbiology and Immunology (M. V. Williams), 1 February 1989 through 31 January 1990. (Project 766606 - Continuation)

\$48,091.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Research on Analysis of Large Aperture Reflector Antennas, ElectroScience Laboratory, Department of Electrical Engineering (R. Rudduck), 1 November 1988 through 31 August 1989. (Project 763724 - Continuation)

\$47,595.00 - National Foundation of Arts and Humanities, National Endowment for the Humanities, Washington, D.C., "Columbus in America" -- An Art Exhibition, Office of International Affairs (C. Zacher), 1 January 1989 through 30 June 1989. (Project 767255 - New)

\$46,315.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Argon Laser Trabeculoplasty Glaucoma Trial, Department of Ophthalmology (P. A. Weber), 22 February 1989 through 21 February 1990. (Project 764587 - Continuation)

\$38,893.00 - Department of the Army, Army Corps of Engineers, Vicksburg, Mississippi, Determination of Residual Stress and Effects in Thick Section Weldments for Hydraulic Structures, Department of Welding Engineering (C. L. Tsai), 12 December 1988 through 11 December 1989. (Project 767229 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$33,248.00 - Department of Health and Human Services, Public Health Service, Centers for Disease Control, Atlanta, Georgia, Quantitative Measures of Wrist Motions, Department of Industrial and Systems Engineering (W. S. Marras), 1 January 1989 through 31 December 1989. (Project 767212 - New)

\$30,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Experimental Study of Organized Structures in a Supersonic Shear Layer, Department of Mechanical Engineering (M. Samimy), 23 February 1989 through 22 February 1990. (Project 765794 - Continuation)

\$28,800.00 - National Science Foundation, Washington, D.C., Application of Measure Theory to Probability and Banach Spaces, Department of Mathematics (M. Talagrand), 1 December 1989 through 30 November 1990. (Project 766743 - Continuation)

\$25,925.00 - Department of the Navy, Naval Material Command, Bethesda, Maryland, Vortex Motion Past a Cavity with Elastic Obstructions, Department of Mechanical Engineering (A. T. Conlisk), 1 May 1988 through 6 April 1989. (Project 765323 - Continuation)

\$25,000.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award: Very Large Scale Integration Design of Electronic Circuits, Department of Electrical Engineering (M. I. El-Naggar), 1 July 1989 through 30 June 1990. (Project 766995 - Continuation)

\$22,267.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Biotin Enzymes in Sudden Infant Death Syndrome Tissue, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (J. B. Allred), 1 February 1989 through 31 January 1990. (Project 766568 - Continuation)

\$21,262.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Modeling Cumulative Damage Processes in Composite Laminates, Department of Civil Engineering (R. S. Sandhu), 1 October 1988 through 30 June 1989. (Project 764779 - Continuation)

\$21,000.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Regulation of Splicing of Drosophila MLC-ALK Pre-mRNA, Department of Molecular Genetics (S. Falkenthal and B. G. Leicht), 1 February 1989 through 31 January 1990. (Project 766565 - Continuation)

\$15,350.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Association Between Orthognathic Surgery and Sleep Apnea, Orthodontics (A. W. Walters), 1 January 1989 through 31 December 1989. (Project 767261 - New)

\$10,000.00 - Department of the Air Force, Air Force Systems Command, Hanscom Air Force Base, Massachusetts, Spectroscopy of Molecular Ions and Their Clusters, Department of Chemistry (T. A. Miller), 1 October 1988 through 11 January 1989. (Project 765285 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$10,000.00 - Department of Agriculture, Soil Conservation Service, Columbus, Ohio, Socio-Economic Factors Affecting the Adoption of Soil Erosion Control Practices, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (T. L. Napier), 30 September 1987 through 29 September 1989. (Project 766387 - Continuation)

\$2,500.00 - National Science Foundation, Washington, D.C., Catalytic Site of Calmodulin-Dependent Protein Kinases, Department of Chemistry (M. M. King), 1 February 1989 through 31 January 1991. (Project 767220 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$6,592,275.00**

**State of Ohio Research Contracts/Grants**

\$424,774.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Ohio Adult Services Training Program, College of Social Work (R. E. Boettcher), 1 January 1989 through 30 June 1990. (Project 767200 - New)

\$53,000.00 - State of Ohio, Department of Development, Columbus, Ohio, Support for the Ohio Technology Transfer Organization (OTTO), Department of Mechanical Engineering and Academic Affairs Administration (R. E. Bailey), 1 July 1988 through 30 June 1989. (Project 766925 - Continuation)

\$11,600.00 - State of Ohio, Department of Education, Columbus, Ohio, Ohio Entrepreneurs Research Project -- Year II, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766953 - Continuation)

\$5,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Positive Parenting, Cooperative Extension Field Operations (R. Culbertson), 1 April 1988 through 31 March 1989. (Project 767237 - New)

\$3,761.00 - Ohio Arts Council/Ohio Humanities Council Joint Program in the Arts and Humanities, Columbus, Ohio, Images of China: A Cultural Journey, Continuing Education Administration (J. L. Kramer), 1 January 1989 through 30 September 1989. (Project 767253 - New)

\$3,284.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Archaeology in a Greek Sanctuary: Isthmia Excavations, 1967-1989, Department of History (T. E. Gregory), 3 December 1988 through 30 April 1989. (Project 767263 - New)

\$2,000.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Art and the Emperor: A Public Interdisciplinary Symposium on the Arts of China, Department of History of Art (J. Andrews and J. Huntington) and Office of International Affairs (C. M. Chen), 1 December 1988 through 30 June 1989. (Project 767270 - New)

\$1,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Art and the Emperor: A Public Interdisciplinary Symposium on the Arts of China, Department of History of Art (J. Andrews and J. Huntington) and Office of International Affairs (C. M. Chen), 3 December 1988 through 30 June 1989. (Project 767257 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$962.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Adrienne Kennedy Workshops, Department of Theatre (A. L. Woods), 28 November 1988 through 15 February 1989. (Project 767224 - New)

**TOTAL - STATE OF OHIO AWARDS** **\$ 505,381.00**

**Industrial Research Contracts/Grants**

\$880,146.00 - Abt Associates, Inc., Cambridge, Massachusetts, Evaluation of Transitions to Independence, Center on Education and Training for Employment (R. D. Ryan), 13 October 1988 through 1 March 1993. (Project 767267 - New)

\$388,158.00 - General Electric Company, Louisville, Kentucky, Facilitating Training for the GE/MABE Leiser Plant in San Luis Potosi, Mexico, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 30 June 1990. (Project 767250 - New)

\$150,000.00 - Cargill, Inc., Minneapolis, Minnesota, New Carbohydrate-Based Polymers, Department of Chemistry (M. R. Callstrom), 1 February 1989 through 30 September 1991. (Project 767268 - New)

\$128,860.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Pack Cementation Coating of Iron-Based Alloys, Department of Materials Science and Engineering (R. A. Rapp), 1 December 1988 through 31 October 1989. (Project 766509 - Continuation)

\$123,000.00 - Martin Marietta Corporation, Oak Ridge, Tennessee, Weld Imaging System for Control of Laser and Electron Beam Welding, Department of Welding Engineering (R. W. Richardson), 1 October 1988 through 30 September 1989. (Project 766726 - Continuation)

\$105,000.00 - Ross Laboratories, Columbus, Ohio, Maximizing Yield of Specific Antibody in Mammary Secretion of Lactating Dairy Cows, Department of Dairy Science - OARDC (K. L. Smith), 1 January 1989 through 31 December 1989. (Project 765238 - Continuation)

\$96,000.00 - Pfizer, Inc., Groton, Connecticut, A Randomized Multicenter Study of the Efficacy, Safety and Toleration of Fluconazole or Clotrimazole Troches in the Treatment of Patients with Oropharyngeal Candidiasis in Association with Acquired Immunodeficiency Syndrome, Department of Internal Medicine (S. L. Koletar), 1 November 1988 through 31 October 1989. (Project 767239 - New)

\$91,569.00 - Calbiochem Corporation, La Jolla, California, Overproduction of Daunomycin, Department of Microbiology (W. R. Strohl), 1 January 1989 through 31 December 1989. (Project 767236 - New)

\$74,825.00 - TRW, San Diego, California, Multifunction Antenna Study, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 2 July 1988 through 30 June 1989. (Project 765410 - Continuation)

\$66,516.00 - CIBA-GEIGY Corporation, Summit, New Jersey, Single Oral Dose Safety Study of CGS-13429A in Volunteers, Department of Pharmacology (N. Gerber), 15 October 1988 through 14 April 1989. (Project 765696 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$59,197.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study to Determine the Difference Between Urine Concentrations of CP-73,850 at Steady State and the Urine Solubility of CP-73,850 in Healthy Volunteers, Department of Pharmacology (N. Gerber), 1 August 1988 through 14 September 1988. (Project 765696 - Continuation)

\$53,687.00 - Marion Laboratories, Inc., Kansas City, Missouri, Therapeutic Trials of Campylobacter pylori Gastritis, Department of Veterinary Pathobiology (G. S. Krakowka), 1 May 1988 through 30 April 1990. (Project 766744 - Continuation)

\$50,662.00 - Riker Laboratories, Inc., St. Paul, Minnesota, Open-Label Safety and Efficacy Study of Flecainide Acetate in the Treatment of Supraventricular Arrhythmias, Department of Internal Medicine (S. F. Schaal, S. D. Nelson and C. Love), 1 January 1989 through 13 December 1989. (Project 767247 - New)

\$49,975.00 - Astra Alab AB, Sodertalje, Sweden, Novel Drug Delivery Systems, College of Pharmacy (S. G. Frank), 1 January 1989 through 31 December 1989. (Project 762165 - Continuation)

\$44,902.00 - Pfizer, Inc., Groton, Connecticut, Azithromycin in the Treatment of Acute Lower Respiratory Tract Infections -- A Multicenter, Third Party, Blinded Trial Employing Ceclor as a Comparative Agent, University Health Service (D. I. Charles), 1 October 1988 through 30 September 1989. (Project 767256 - New)

\$20,000.00 - Universal Energy Systems, Inc., Dayton, Ohio, Knowledge Development for the Rule-Based Process Automation of Resin Transfer Molding, Department of Chemical Engineering (L. J. Lee), 1 January 1989 through 15 December 1989. (Project 767240 - New)

\$19,966.00 - Universal Energy Systems, Inc., Dayton, Ohio, Modeling Low Velocity Impact of Composites Using a Discrete Laminate Theory, Department of Civil Engineering (W. E. Wolfe), 1 January 1989 through 31 December 1989. (Project 767235 - New)

\$15,128.00 - Honda of America Manufacturing, Inc., Marysville, Ohio, Enhancing the Japanese Children's Acculturation Process, Department of Educational Studies: Humanities, Science, Technological and Vocational (K. Samimy), 1 January 1989 through 31 December 1989. (Project 767264 - New)

\$15,015.00 - Ross Laboratories, Columbus, Ohio, Determination of the Mechanism of Deposit Formation During UHT Treatment of Milk-Based Infant Formula, Department of Food Science and Nutrition - OARDC and Department of Food Science and Nutrition (M. E. Mangino), 21 October 1988 through 31 December 1989. (Project 767246 - New)

\$15,000.00 - Freightliner Corporation, Charlotte, North Carolina, The Conduct of Focused Research and the Consequent Development of a Conceptual Cab Interior System for an Advanced Class 8 Truck, Department of Industrial Design (R. F. Butter), 1 July 1988 through 30 June 1989. (Project 766275 - Continuation)

\$8,623.00 - Honda of America Manufacturing, Inc., Marysville, Ohio, Basic Skill Requirements of Honda Production Associates, College of Education - Administration (J. J. Buffer), 5 December 1988 through 31 March 1989. (Project 767233 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$8,274.00 - The Upjohn Company, Kalamazoo, Michigan, Evaluation of Insect Cell Lines for Gene Expression, Department of Entomology (W. F. Hink), 17 January 1989 through 16 January 1992. (Project 767254 - New)

\$4,876.30 - Bausch and Lomb, Rochester, New York, Silicone Lens Study, College of Optometry (J. T. Barr), 1 November 1988 through 28 February 1990. (Project 767245 - New)

\$2,420.00 - Abbott Laboratories, Abbott Park, Illinois, A Comparative Study of Polymer Coated Erythromycin Versus Doxycycline in the Treatment of *Chlamydia trachomatis* Genital Infections, College of Pharmacy (J. A. Visconti) and University Health Service (D. I. Charles), 27 January 1988 through 26 January 1990. (Project 766570 - Continuation)

\$900.00 - Ohio Ground Water Consultants, Inc., Columbus, Ohio, Pollen Analysis, Byrd Polar Research Center (D. H. Elliot), 7 December 1988 through 31 March 1989. (Project 767271 - New)

Equipment/Computer Software - Digital Equipment Corporation, Hudson, Massachusetts, External Research Program, Department of Linguistics (M. E. Beckman), 1 October 1988 through 30 September 1989. (Project 767231 - New) (Approximate Dollar Value - \$37,500)

Equipment - Motorola, Inc., Phoenix, Arizona, Development of a Fast Parallel Processing Function for the Scanning Laser Imaging System, College of Pharmacy (J. M. Jagadeesh) and Comprehensive Cancer Center (L. D. Tomei), 1 August 1988 through 30 June 1989. (Project 767252 - New) (Approximate Dollar Value - \$6,750)

**TOTAL - INDUSTRIAL AWARDS** **\$2,472,699.30**

**Other Non-Federal Research Contracts/Grants**

\$182,759.06 - Indonesian Government, Jakarta, Indonesia, Partial Management Support Plan, College of Education - Administration (J. J. Buffer), 1 May 1988 through 31 December 1990. (Project 767036 - New)

\$148,078.00 - University of Chicago, Argonne, Illinois, Optical Readout System for the ZEUS Barrel Calorimeter, Department of Physics (T. A. Romanowski), 1 January 1989 through 30 April 1989. (Project 767107 - Continuation)

\$82,443.00 - University Affiliated Cincinnati Center for Developmental Disorders, Cincinnati, Ohio, Ohio Developmental Disabilities Prevention Continuing Education, Nisonger Center (S. R. Schroeder and J. Rojahn), 1 January 1989 through 31 December 1989. (Project 764528 - Continuation)

\$72,000.00 - The University of Rochester, Rochester, New York, Parkinson's Study Group, Department of Neurology (G. W. Paulson), 1 April 1988 through 31 March 1989. (Project 766244 - Continuation)

\$56,744.00 - University of Texas, Houston, Texas, Evaluation of Home Uterine Contraction Monitoring in Evaluation of High Risk Pregnancies, Department of Obstetrics and Gynecology (J. D. Iams), 1 December 1988 through 30 November 1989. (Project 766646 - Continuation)



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$53,320.00 - Elsa U. Pardee Foundation, Midland, Michigan, Role of Parathyroid Hormone-Related Protein in the Pathogenesis of Cancer-Associated Hypercalcemia, Department of Veterinary Pathobiology (T. J. Rosol), 1 January 1989 through 28 February 1990. (Project 767228 - New)

\$35,200.00 - Georgia Department of Education, Atlanta, Georgia, Pilot Test Procedures for Evaluating Georgia Secondary Vocational Education Programs, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 October 1989. (Project 767251 - New)

\$34,300.00 - Florida Power and Light Company, Miami, Florida, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

\$32,473.00 - The University of Kansas, Lawrence, Kansas, Biomimetic Metal Complexes of Macrocyclic Ligands, Department of Chemistry (B. E. Bursten), 1 December 1988 through 30 November 1989. (Project 767241 - New)

\$29,967.00 - Muscular Dystrophy Association, New York, New York, Calcium<sup>2+</sup>, Drug, and Kinase Modulation of Calcium Channels, Department of Physiological Chemistry (J. D. Johnson), 1 January 1989 through 31 December 1989. (Project 763866 - Continuation)

\$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Adverse Effect of Gossypol and Gossypol-Containing Milk on Reproductive Function in Nursing Dams and Their Pups, Department of Veterinary Physiology and Pharmacology (Y. C. Lin), 1 January 1989 through 31 December 1989. (Project 766601 - Continuation)

\$24,030.00 - The George Gund Foundation, Cleveland, Ohio, Using Television to Enhance Public Information Levels About the Great Lakes, School of Natural Resources (R. W. Fortner) and Department of Educational Studies: Humanities, Science, Technological and Vocational (V. J. Mayer), 1 January 1989 through 31 December 1989. (Project 767248 - New)

\$23,858.00 - University of Arkansas, Fayetteville, Arkansas, Consortium for the Development of Professional Materials for Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 December 1988 through 30 June 1989. (Project 767002 - Continuation)

\$22,990.00 - Muscular Dystrophy Association, New York, New York, Calcineurin -- Membrane Interactions, Department of Chemistry (M. M. King), 1 January 1989 through 31 December 1989. (Project 765869 - Continuation)

\$20,000.00 - California Institute of Technology, Pasadena, California, Altimetry Research in Ocean Circulation, Department of Geodetic Science and Surveying (R. H. Rapp), 1 January 1989 through 31 May 1989. (Project 766536 - Continuation)

\$17,949.00 - Indiana Department of Mental Health, Indianapolis, Indiana, Indiana Homeless Mentally III: Mobile Screening and Case Management, College of Social Work (R. J. First), 1 December 1988 through 30 November 1989. (Project 767275 - Continuation)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$17,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, A Mammalian Estrogenicity Testing System for Polyhalogenated Hydrocarbons: Genetic Toxicological Testing for Potentially Estrogenic Substances, Department of Dairy Science - OARDC (C. P. Hodgson and L. B. Willett), 1 January 1989 through 31 December 1989. (Project 765117 - Continuation)

\$13,080.00 - Muskingum County Board of Mental Retardation and Developmental Disabilities, Zanesville, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 1 September 1988 through 31 August 1989. (Project 767169 - Continuation)

\$11,600.00 - Yassenoff Foundation, Columbus, Ohio, Developing a Model, Robotically-Aided Science Education Environment, Department of Educational Policy and Leadership (R. Howell), 1 January 1989 through 31 December 1989. (Project 767273 - Continuation)

\$10,346.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Agribusiness Training Project in the Dominican Republic, Office of International Programs in Agriculture (D. O. Hansen), 1 October 1988 through 28 February 1989. (Project 767137 - Continuation)

\$9,527.00 - Miami Valley Research Institute, Kettering, Ohio, OSU Participation in the Artificial Intelligence Center at Wright-Patterson Air Force Base, Department of Computer and Information Science (B. Chandrasekaran) and Department of Chemical Engineering (J. F. Davis), 1 November 1987 through 15 October 1988. (Project 767213 - New)

\$7,000.00 - University of Minnesota, St. Paul, Minnesota, Molecular Basis of Candida Infections in Hyperglycemic Hosts, Department of Microbiology (K. E. Kendrick), 1 November 1988 through 31 October 1989. (Project 767234 - New)

\$6,888.00 - Indonesian Government, Jakarta, Indonesia, Refresher C Programs for Faculties of the Institutes for Teacher Training and Education and for the Faculties of Teacher Training and Education of Indonesia, College of Education - Administration (J. J. Buffer), 1 October 1988 through 31 July 1989. (Project 767165 - Continuation)

\$5,947.25 - American Agricultural Economics Association, Ames, Iowa, Priority Data on Agricultural and Rural Areas: A Survey of Agricultural and Rural Social Scientists, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak) and Department of Agricultural Economics and Rural Sociology (W. S. Chern and L. Tweeten), 1 April 1988 through 31 December 1989. (Project 766867 - Continuation)

\$4,223.00 - South-Western City Schools, Grove City, Ohio, Student Coordinator for Health Education Program, School of Health, Physical Education and Recreation (L. B. Meeks and P. Heit), 1 January 1989 through 31 July 1989. (Project 767243 - New)

\$3,000.00 - Butler County Children's Services Board, Hamilton, Ohio, Development of Living Skills, Cooperative Extension Field Operations (P. H. Simmons), 1 December 1988 through 28 February 1989. (Project 765233 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

\$2,275.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 February 1985 through 30 June 1989. (Project 765208 - Continuation)

\$2,145.00 - Battelle Memorial Institute, Columbus, Ohio, Particle Impact Test on Steel Plates, Department of Civil Engineering (W. E. Wolfe), 1 January 1989 through 31 December 1989. (Project 767238 - Continuation)

**TOTAL - OTHER NON-FEDERAL AWARDS** **\$ 954,142.31**

**ENGINEERING EXPERIMENT STATION**

**State Sponsored Research and Development**

\$200,000.00 - Ohio Department of Transportation, Columbus, OH, "Rural Technology Assistance Program," Department of Civil Engineering, 1 January 1989, through 31 December 1989. (529791)

\$97,267.00 - Thomas A. Edison Program, Columbus, OH, and Ribtec, Columbus, OH, "Coilable Ultrahard Hardfacing Welding Consumables," Department of Welding Engineering, 1 October 1988 through 31 March 1990. (312491)

\$50,000.00 - Thomas A. Edison Program, Columbus, OH, and Isotech, Miamisburg, OH, "Isotopically Selective Chemical Reactions Initiated by Laser Radiation," Department of Mechanical Engineering, 1 October 1988 through 31 December 1989. (529786)

\$40,000.00 - additional funding from the Thomas A. Edison Program, Columbus, OH, and Ribtec, Columbus, OH, "Direct Cast Steel Strip," Department of Materials Science and Engineering, 1 October 1988 through 30 September 1989. (529783, Ext. 1)

\$19,515.00 - Ohio Coal Development Office, Columbus, OH, "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," Department of Materials Science and Engineering, 1 August 1988 through 31 December 1988. (529981)

\$12,721.00 - Ohio Coal Development Office, Columbus, OH, "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," Department of Chemical Engineering, 1 August 1988 through 31 December 1989. (529980)

**TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT** **\$ 419,503.00**

**Industrial and Other Sponsored Research and Development**

\$150,032.00 - Armco Research and Technology, Middletown, OH, "Application of Swirling Melt/Gas Flow in Slab Caster Tundishes," Department of Materials Science and Engineering, 1 November 1988 through 31 October 1991. (312490)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### ENGINEERING EXPERIMENT STATION (contd)

#### Industrial and Other Sponsored Research and Development (contd)

\$125,000.00 - from various industry for Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$115,000.00 - additional funding from EPRI, Palo Alto, CA, "Modeling of Electromagnetic Fields in Substations," Department of Electrical Engineering, 1 August 1988 through 31 December 1989. (529770, Ext. 1)

\$72,125.00 - from 34 sponsors of 60 development projects in six departments/research areas of the college.

\$66,429.00 - Columbia Gas System Service Corp., Columbus, OH, "Absorber/Condenser Redesign," Department of Mechanical Engineering, 15 November 1988, through 14 August 1989. (312489)

\$63,594.00 - additional funding from General Electric, Cincinnati, OH, "Plasma Arc Tunnel System," Department of Aeronautical and Astronautical Engineering, 9 September 1987, through 31 December 1989. (312432, Exts. 2 & 3)

\$52,894.00 - McDonnell Douglas Corp., St. Louis, MO, "Analysis of Electromagnetic Scattering from Electrically Large Ducts/Cavities," Department of Electrical Engineering, 31 October 1987, through 30 September 1989. (312436, Ext. 1)

\$50,000.00 - Lockheed Missiles & Space Co., Inc., Sunnyvale, CA, "Technical Assistance/Large Compact Range Project," Department of Electrical Engineering, 1 December 1988 through 30 June 1989. (312496)

\$41,552.00 - IBM, Hopewell Junction, NY, "Thermoviscoelastic Characterization of a Polyimide Material for Electronics Applications," Department of Engineering Mechanics, 1 November 1988 through 31 October 1989. (529787)

\$40,214.00 - University of Cincinnati/Ohio Board of Regents, Columbus, OH, "Ohio Aerospace Institute Ad Hoc Action Committee Support," Department of Mechanical Engineering, 1 November 1988 through 31 October 1989. (529789)

\$40,000.00 - from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$40,000.00 - from various industry for membership in "Compact Radar Cross Section Measurement Ranges Research and Development Consortium," Department of Electrical Engineering. (312884)

\$37,500.00 - ICRA, Inc., New York, NY, "Thermal Characteristics of Copper Alloy Tooling in Plastic Molding," Department of Mechanical Engineering, 1 July 1988, through 30 June 1990. (529762, Ext. 1)

\$26,000.00 - General Motors Research Laboratories, Warren, MI, "Improving the Resistance of High Strength Steel Fasteners to Hydrogen Embrittlement," Department of Materials Science and Engineering, 1 September 1985 through 31 August 1989. (529695, Ext. 3)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### ENGINEERING EXPERIMENT STATION (contd)

#### Industrial and Other Sponsored Research and Development (contd)

\$25,740.00 - Scantech Corporation, Sante Fe, New Mexico, "Research and Development for a Tomographic Digital Diode Array Radiography System," Nuclear Engineering Program, 1 October 1988 through 30 September 1989. (529790)

\$25,168.00 - General Electric, AEBG, Evendale, OH, "Gleeble Study of Advanced Alpha-Two and Gamma Titanium Aluminides," Department of Welding Engineering, 3 November 1988 through 31 December 1988. (312487)

\$25,000.00 - Rinaldo Piaggio, Genova, Italy, "An Analysis of Advanced Propeller for Piaggio P. 180," Department of Aeronautical and Astronautical Engineering, 2 February 1987, through 31 March 1989. (312401, Ext. 1)

\$21,851.00 - Edison Welding Institute, Columbus, OH, "Welding of Metal Matrix Composites," Department of Welding Engineering, 1 July 1988, through 30 June 1989. (529323, Ext. 1)

\$(20,000.00) - reduced funding from Bell Helicopter, Fort Worth, TX, "Gear Noise Modeling and Prediction for BHTI Future Attack Rotorcraft (FAR) Transmission," Department of Mechanical Engineering. (312476)

\$12,000.00 - Embassy of Egypt, Washington, DC, "Peace Fellow-Abdalla A. El-Sharkaway," Department of Mechanical Engineering, 1 December 1988, through 31 May 1990. (312488)

\$10,000.00 - Chevron Oil Field Research Company, La Habra, CA, "Application of Characteristic Time Concepts for Hydraulic Fracture Configuration Design, Control and Optimization," Department of Engineering Mechanics, 1 January 1989 through 31 December 1989. (529788)

\$8,000.00 - from various industry for Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$6,000.00 - from various industry for "Participating Industry Program to Develop Computer-Aided Machine Design Modules - Phase II," Department of Mechanical Engineering. (312594)

\$2,145.00 - Edison Welding Institute, Columbus, OH, "Investigation of Weldability Test Techniques," Department of Welding Engineering, 1 July 1988 through 30 June 1989. (529320, Ext. 1)

TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH \$1,036,244.00

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

#### Establishment of Named Funds

##### The Rita C. and Oscar L. Thomas, Sr. Fund

The Rita C. and Oscar L. Thomas, Sr. Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from and in honor of Oscar L. Thomas, Sr., (B.A. '26) of Columbus, Ohio.

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds**

**The Rita C. and Oscar L. Thomas, Sr. Fund (contd)**

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for support of the College of Business, to expand and support the library of the College of Business, and for such other purposes as shall be determined by the Dean of the College of Business.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

**The Lloyd G. and Virginia Sharp Memorial  
Scholarship Fund for Carroll County**

The Lloyd G. and Virginia Sharp Memorial Scholarship Fund for Carroll County was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Lloyd G. and Virginia Sharp of Carrollton, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income from this fund shall be used to provide one or more scholarships to students from Carroll County who are entering freshmen or currently enrolled students in either The Ohio State University College of Agriculture at Columbus, or the Agricultural Technical Institute at Wooster. Criteria for selection shall include outstanding scholastic achievement and demonstrated leadership potential through participation in extra-curricular activities. Preference will be given to those students with financial need. Selection will be made by the University Committee on Student Financial Aid in consultation with the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**The Woody and Anne Hayes 1968 National Championship  
Athletic Scholarship Fund**

The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The

## **REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Woody and Anne Hayes 1968 National Championship Athletic Scholarship Fund (contd)**

Ohio State University Development Fund from members of The Ohio State University's 1968 National Championship Football Team and their families.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide or supplement educational costs toward a degree at The Ohio State University for former varsity football players and coaches and their spouses and first and second generation children. Any annual income not expended for educational needs may be used at the discretion of the Director of Athletics to enhance the varsity football program. Recipients of educational scholarship assistance from this endowment will be selected and approved by the Director of Athletics in cooperation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the senior administrative official of the University who has direct responsibility for the intercollegiate varsity athletic program at The Ohio State University in order to carry out the desire of the donors.

##### **The Sue Ann Dowell Schott Agricultural Fund**

The Sue Ann Dowell Schott Agricultural Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Glen C. Dowell (B.A. '46, M.D. '49) and Mrs. Jo Ann Dowell (B.S. '50) in honor of their daughter, Sue Ann Dowell Schott (B.A. '82).

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

Annual income shall be used to fund graduate fellowships, sponsor seminars or provide support for programs and activities that will assist the College of Agriculture in helping farmers enhance their profitability and increase their income. The income from this fund may be used to support a center or endowed chair consistent with these purposes, that may be established by this donor or others at a later date. All expenditures shall be approved by the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Ohio State University Marion Campus Founders Scholarship Endowment Fund**

The Ohio State University Marion Campus Founders Scholarship Endowment Fund was established April 7, 1989, in accordance with the guidelines approved by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund for the benefit of The Ohio State University at Marion from the founders of the Marion Campus and the current trustees of the Marion Area College Foundation, Inc., Edwin L. Mitchell (B.A. '34, J.D. '37), Ralph W. Howard (J.D. '48), Robert S. Brown (M.A. '48, Ph.D. '54), Thomas Wagner (D.D.S '55), Joseph W. Galloway, Jr. (B.S.Bus.Adm. '48), A. O. Gross (M.A. '47) and James Burris (B.Arch. '51), representing donors who oversubscribed the campus acquisition campaign in 1965.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five percent (85%) shall be used for one or more scholarships to deserving students of merit who are attending The Ohio State University at Marion. Scholarship recipients shall be selected by The Ohio State University at Marion Scholarship Committee in consultation with the Dean of The Ohio State University at Marion and the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit The Ohio State University at Marion in perpetuity. If the need for this fund or the allocation of income provided for above should cease to exist or so diminish as to provide unused income, then another use or allocation shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

##### **The Virginia A. Arnold Scholarship Fund in Elementary Education**

The Virginia A. Arnold Scholarship Fund in Elementary Education was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Dr. Virginia Arnold, (M.A. '65, Ph.D. '72) of Richmond, Virginia.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships to students enrolled in a program leading to teaching certification in early and middle childhood education. Selection of the recipients shall be based on high scholastic achievement and economic need and shall be made by the Dean of the College of Education or his designee in consultation with the University Committee on Student Financial Aid.



**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Virginia A. Arnold Scholarship Fund  
in Elementary Education (contd)**

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer who is responsible for early and middle childhood education in order to carry out the desire of the donor.

**The Dr. Henry J. Detmers Fund in Veterinary Medicine**

The Dr. Henry J. Detmers Fund in Veterinary Medicine was established April 7, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from great-granddaughters of Dr. Henry J. Detmers, in recognition of his service as the first and sole Chief of the School of Veterinary Medicine during the ten years preceding the establishment of the College of Veterinary Medicine in 1895.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used at the discretion of the Dean to support student needs, innovative teaching and curricular development, research to alleviate animal suffering, needed equipment, and other priorities deemed important to maintain and enhance the standing of the College.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in order to carry out the desire of the donors, with preference being given to recommendations of the Dean of the College of Veterinary Medicine.

**Change in Name and Description of Named Fund**

**The Robert E. Oscar Scholarship Fund  
in International Business**

The Robert E. Oscar Professorship in International Business Fund was established February 5, 1982. The name and description were changed April 7, 1989, to The Robert E. Oscar Scholarship Fund in International Business, by the Board of Trustees of The Ohio State University with the balance of the Robert E. Oscar Professorship in International Business Fund, and derived from a bequest to The Ohio State University Development Fund from Robert E. Oscar (B.S.Bus.Adm. '38) of Chicago, Illinois, and by gifts from Mr. and Mrs. Leonard S. Milazzo of Bentleyville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Change in Name and Description of Named Fund (contd)**

**The Robert E. Oscar Scholarship Fund  
in International Business (contd)**

The annual income is to be used to provide scholarships for students who are majoring in international business and who have demonstrated academic ability and need for financial assistance. The selection of the recipient is to be made upon the recommendation of the University Committee on Student Financial Aid in cooperation with the Dean of the College of Business.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**Change in Description of Named Fund**

**The Sphinx Endowment Fund**

The Sphinx Endowment Fund was established November 5, 1982, with gifts from members and friends of the Sphinx Senior Class Honor Society. The description was revised December 14, 1984, and was further revised April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income may be used to provide funds for any or all of the following:

- (1) Scholarships to one or more of the current class of active Sphinx members who are entering or in their senior year of undergraduate study;
- (2) the continued maintenance of current and the addition of new class plaques to the Sphinx Plaza;
- (3) the costs of communications with Sphinx members for gift support and reunion activities; and
- (4) the support of current active chapter activities.

To the extent annual income is not adequate, principal may be used for the same purposes for which income may be used. Principal may also be used for the further development of the site and structures in and adjacent to the Sphinx Plaza and for the upkeep and maintenance of such further developments. At the end of each of the University's fiscal years, any unallocated income balance shall be transferred to the principal account. All expenditures of income and principal shall be approved in advance by the affirmative vote of a majority of the members of the Sphinx Alumni Council which shall be made up of the current active chapter Sphinx President, the Sphinx

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Change in Description of Named Fund (contd)**

**The Sphinx Endowment Fund (contd)**

faculty advisor, the Director of Alumni Affairs, and three Sphinx alumni members appointed by The Ohio State University Alumni Association Board of Directors.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees of The Ohio State University.

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

**Report - February 1989**

**Federal Research Contracts/Grants**

**\$400,000.00** - Department of Education, Washington, D.C., Rehabilitation Engineering Center for the Quantification of Human Performance, Department of Surgery (S. R. Simon), Department of Preventive Medicine (W. S. Pease), Department of Industrial and Systems Engineering (P. J. Smith and W. S. Marras), and Department of Electrical Engineering (H. N. Hemami), 1 February 1989 through 31 January 1990. (Project 766622 - Continuation)

**\$360,000.00** - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Educational Resources Information Center (ERIC) Clearinghouse on Adult, Career, and Vocational Education, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 31 December 1989. (Project 766522 - Continuation)

**\$314,320.00** - Department of Education, Office of Educational Research and Improvements, Washington, D.C., Operation of an Educational Resources Information Center (ERIC) Clearinghouse on Science, Mathematics, and Education, Educational Studies: Humanities, Science, Technological and Vocational (R. W. Howe), 1 January 1989 through 31 December 1989. (Project 766518 - Continuation)

**\$189,600.00** - Department of Agriculture, Science and Education, Washington, D.C., The Organization and Performance of World Food Systems, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson), 1 January 1989 through 31 December 1989. (Project 767311 - New)

**\$149,228.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Constitutive Parameter Measurements of Lossy Materials, ElectroScience Laboratory, Department of Electrical Engineering (A. K. Dominek), 1 February 1989 through 31 January 1990. (Project 767291 New)

**\$148,938.00** - Department of Health and Human Services, Public Health Service, Health Resources and Services Administration, Rockville, Maryland, The Ohio State University Advanced Nurse Training Grant, Department of Family and Community Nursing (E. M. Menke), 1 March 1989 through 28 February 1990. (Project 764615 - Continuation)

**\$135,000.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, An Experimental Research Program on the Supersonic Throughflow Turbopan,

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

Department of Aeronautical and Astronautical Engineering (J. D. Lee and M. B. Bragg), 20 February 1989 through 19 February 1990. (Project 767282 - New)

\$126,983.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Mechanistic Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 1 April 1989 through 31 March 1990. (Project 766661 - Continuation)

\$126,084.00 - Department of Agriculture, Science and Education, Washington, D.C., New Uses for Agricultural Products, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (D. R. Henderson, N. Rask and C. R. Zulauf), 1 September 1988 through 31 August 1989. (Project 767320 - New)

\$125,620.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Cellular Mechanisms of Human Immunosenescence, Department of Internal Medicine (R. Whisler), 1 March 1989 through 28 February 1990. (Project 763761 - Continuation)

\$123,776.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Site Specific Modification of Human Cellular DNA, Department of Physiological Chemistry and Comprehensive Cancer Center (G. E. Milo), 31 January 1989 through 30 January 1990. (Project 765728 - Continuation)

\$120,121.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Support of Defects Investigations, Department of Mechanical Engineering (D. A. Guenther), 16 November 1988 through 15 November 1989. (Project 765180 - Continuation)

\$119,350.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, A 60 Kilodalton Oncofetal Protein Associated with Carcinogenesis, Department of Physiological Chemistry (T. E. Webb), 1 February 1989 through 31 January 1990. (Project 765588 - Continuation)

\$115,859.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Generic Tasks for Knowledge-Based Problem Solving: Extensions and New Directions, Department of Computer and Information Science (B. Chandrasekaran), 19 December 1988 through 18 December 1989. (Project 767305 - New)

\$114,200.00 - National Science Foundation, Washington, D.C., Mechanisms of Polycrystalline Strain Propagation: Controlled Orientations and Applied Stress Fields, Department of Materials Science and Engineering (W. A. T. Clark and R. H. Wagoner), 1 January 1989 through 31 December 1989. (Project 765832 - Continuation)

\$111,800.00 - National Science Foundation, Washington, D.C., Studies Involving Molecules and Intermediates of Theoretical Interest, Department of Chemistry (L. A. Paquette), 1 September 1989 through 31 August 1990. (Project 766349 - Continuation)

\$110,000.00 - National Science Foundation, Washington, D.C., Biochemistry and Molecular Biology of Polymeric Defense Barriers in Plants, Biotechnology Program (P. E. Kolattukudy), 1 March 1989 through 28 February 1990. (Project 767325 - New)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$100,000.00 - National Science Foundation, Washington, D.C., Numerical Competence in the Chimpanzee (Pan troglodytes), Department of Psychology (G. G. Berntson and S. T. Boysen), 15 February 1989 through 31 July 1990. (Project 767219 - New)

\$81,634.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, Energetics of Contraction in Single Muscle Cells, Department of Physiology (J. A. Rall), 1 April 1989 through 31 March 1990. (Project 760993 - Continuation)

\$80,372.00 - National Science Foundation, Washington, D.C., Raman and Spatially Resolved Spectroelectrochemistry, Department of Chemistry (R. L. McCreery), 15 February 1989 through 31 January 1990. (Project 767290 - Continuation)

\$80,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Exploratory Research on the Protection of Carbon-Carbon Composites Against Oxidation at Very High Temperatures (<3000°F) with Engel-Brewer and Other Intermetallic Compounds, Department of Materials Science and Engineering (G. R. St. Pierre), 16 January 1989 through 15 January 1990. (Project 767322 - Continuation)

\$80,000.00 - National Science Foundation, Washington, D.C., Effects of Ethylene on Nodule Development and Cloning of the Rhizobitoxine Genes, Biotechnology Program and Department of Agronomy (N. K. Peters), 15 March 1989 through 28 February 1990. (Project 767324 - New)

\$79,930.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, The Gustatory System: Cellular and Synaptic Organization, Oral Biology (M. C. Whitehead), 1 February 1989 through 31 January 1990. (Project 766592 - Continuation)

\$77,000.00 - National Science Foundation, Washington, D.C., Chemotaxis as a Determinant of Competitive Success in Soil, Rhizosphere, and Symbiotic Infection, Department of Agronomy - OARDC and Department of Agronomy (W. D. Bauer), 1 May 1989 through 30 April 1990. (Project 767326 - New)

\$75,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Unified Head Injury Theory, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 764510 - Continuation)

\$75,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Theoretical Studies of the Surface Properties of Liquid Semiconductors and Metals, Department of Physics (D. G. Stroud), 1 March 1989 through 28 February 1990. (Project 767300 - New)

\$75,000.00 - National Science Foundation, Washington, D.C., Molecular Genetics of Extracellular Polysaccharide Synthesis in Erwinia stewartii, Department of Plant Pathology - OARDC and Department of Plant Pathology (D. L. Coplin), 1 April 1989 through 31 March 1990. (Project 766330 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$74,786.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Studies in Electromagnetic Scattering, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 February 1989 through 31 January 1990. (Project 763822 - Continuation)

\$74,300.00 - National Science Foundation, Washington, D.C., Structural Relaxation in Oxide Glasses, Department of Materials Science and Engineering (P. K. Gupta), 1 February 1989 through 31 January 1990. (Project 766572 - Continuation)

\$70,136.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Measurement of Electromagnetic Scattering by Open-Ended Waveguide Cavity Configurations, ElectroScience Laboratory, Department of Electrical Engineering (P. H. Pathak), 1 February 1989 through 31 October 1989. (Project 767286 - New)

\$70,000.00 - National Science Foundation, Washington, D.C., Collaborative Research: Climatic History of the Western Amazon Basin and the Equatorial Andes Since 18K, Department of Zoology (P. A. Colinvaux), 1 February 1989 through 31 January 1990. (Project 766323 - Continuation)

\$69,915.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Precomplexation and Activation of Carbohydrate Phosphate Esters, Department of Chemistry (A. W. Czarnik), 1 March 1989 through 28 February 1991. (Project 766706 - Continuation)

\$66,711.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Passivity and Breakdown of Oxide Films on Aluminum Alloys Produced Using Nonequilibrium Processing Methods, Department of Materials Science and Engineering (G. R. St. Pierre), 16 January 1989 through 30 September 1989. (Project 767297 - New)

\$63,099.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Three-Dimensional Structure of Boundary Layers in Transition to Turbulence, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 April 1989 through 31 March 1990. (Project 766695 - Continuation)

\$56,465.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Electromagnetic Properties of Ice-Coated Surfaces, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr. and W. D. Burnside), 14 June 1989 through 13 September 1989. (Project 766822 - Continuation)

\$55,980.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Multi-Layer Film Deposition for High  $T_c$  (Transition Temperatures) Superconductors, Department of Electrical Engineering (G. J. Valco), 29 January 1989 through 28 January 1990. (Project 766577 - Continuation)

\$45,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Stability of Boundary Layers at High Supersonic and Hypersonic Speeds, Department of Mechanical Engineering and Department of Aeronautical and Astronautical Engineering (T. Herbert), 1 April 1989 through 30 September 1989. (Project 766854 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$42,920.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Proficiency-Oriented Materials for Arabic, Department of Judaic and Near Eastern Languages and Literatures (F. J. Cadora), 1 July 1989 through 30 June 1990. (Project 766882 - Continuation)

\$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (D. L. Cox), 1 July 1988 through 31 December 1989. (Project 766937 - Continuation)

\$34,000.00 - National Science Foundation, Washington, D.C., Quasicrystals and Superfluid Helium, Department of Physics (T. L. Ho), 1 June 1989 through 31 May 1990. (Project 766683 - Continuation)

\$33,233.00 - Department of Defense, Defense Supply Service, Washington, D.C., The Problem of Net Assessment in an Historical Context, Mershon Center for Education (A. R. Millett), and Department of History (W. Murray), 1 October 1988 through 24 April 1989. (Project 765401 - Continuation)

\$30,000.00 - Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, Maryland, Sea Grant Internship, Center for Lake Erie Area Research (J. M. Reutter), 30 January 1989 through 29 January 1990. (Project 767010 - Continuation)

\$28,252.00 - National Science Foundation, Washington, D.C., The Ohio State University Young Scholar Program, Department of Chemistry (M. H. Klapper) and College of Biological Sciences - Administration (A. Ackermann-Brown), 1 March 1989 through 31 January 1991. (Project 766663 - Continuation)

\$27,662.00 - National Science Foundation, Washington, D.C., Collaborative Research: Systematics, Paleoecology, and Extinction of Late Osagean Crinoids from Iowa, Illinois, and Missouri, Department of Geology and Mineralogy (W. I. Ausich), 1 June 1989 through 31 May 1990. (Project 766421 - Continuation)

\$23,041.00 - Department of Defense, Defense Construction Supply Center, Columbus, Ohio, Recreational Facility and Program Management: An Analysis of Civilian Work Force Recreational and Wellness Practices of the Defense Construction Supply Center, Columbus, Ohio, School of Health, Physical Education and Recreation (W. A. Sutton and W. J. Rudman), 1 February 1989 through 31 January 1990. (Project 767308 - New)

\$20,152.00 - National Science Foundation, Washington, D.C., Traveling Wave Solutions of Reaction Diffusion Systems, Department of Mathematics (D. Terman), 1 December 1989 through 30 November 1990. (Project 766089 - Continuation)

\$18,753.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Methyl Chloride Feature in the ATMOS Spectra, Department of Physics (K. N. Rao), 1 January 1989 through 31 December 1990. (Project 767312 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$17,997.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Impact Design Criteria for Helmets, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 767287 - New)

\$14,050.00 - National Science Foundation, Washington, D.C., Comparison and Development of Finite Element Modeling for Sheet-Forming Analysis, Department of Materials Science and Engineering (R. H. Wagoner), 1 February 1989 through 31 January 1992. (Project 767283 - New)

\$11,500.00 - Department of Health and Human Services, Public Health Service, Alcohol, Drug Abuse and Mental Health Administration, Rockville, Maryland, Mechanisms of Aromatic 1-Amino Acid Decarboxylase (AAAD) Activation in the Retina by Light, Department of Pharmacology (N. H. Neff and C. P. Silvia), 1 March 1989 through 28 February 1990. (Project 767315 - New)

\$10,000.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Omnidirectional Dummy Head and Neck, Department of Mechanical Engineering (R. L. Stalnaker), 1 January 1989 through 31 December 1989. (Project 763945 - Continuation)

\$7,099.00 - Department of the Air Force, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, Robust Stability and Performance for Linear Systems with Combined Structured and Nonstructured Uncertainty, Department of Aeronautical and Astronautical Engineering (R. K. Yedavalli), 16 September 1989 through 30 September 1989. (Project 766964 - Continuation)

\$4,000.00 - National Science Foundation, Washington, D.C., The Role of Calcium in Root Growth and Gravitropism, Department of Botany (M. L. Evans), 15 March 1989 through 30 April 1990. (Project 765780 - Continuation)

\$881.00 - Department of Health and Human Services, Public Health Service, National Institutes of Health, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$4,702,247.00**

**State of Ohio Research Contracts/Grants**

\$200,000.00 - State of Ohio, Department of Aging, Columbus, Ohio, OSU Alzheimers Disease Research Center, College of Medicine - Administration (G. L. Trzebiatowski), 1 July 1988 through 30 June 1989. (Project 766254 - Continuation)

\$40,000.00 - State of Ohio, Rehabilitation Services Commission, Columbus, Ohio, Development of an "Air-Chair" for the Handicapped, Department of Electrical Engineering (H. R. Weed), 1 January 1989 through 31 December 1989. (Project 767277 - New)

\$20,514.00 - State of Ohio, Environmental Protection Agency, Columbus, Ohio, An Assessment of the Effectiveness of Various Methods Used to Delineate Wellhead Protection Areas for Several Hydrogeologic Settings in Ohio, Department of Geology and Mineralogy (E. S. Bair), 1 January 1989 through 30 June 1989. (Project 767301 - New)



## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **State of Ohio Research Contracts/Grants (contd)**

\$9,720.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, College of Education - Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)

\$4,600.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, The Other Side: Hispanic Geo-Politics, Culture, and Religion, Wexner Center for the Visual Arts (R. Stearns), 2 January 1989 through 30 April 1989. (Project 767313 - New)

\$1,296.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Evaluation of Fish Management Techniques, Department of Zoology (B. Vondracek and D. A. Culver), 1 April 1989 through 30 June 1989. (Project 766202 - Continuation)

\$1,135.00 - State of Ohio, Ohio Arts Council, Columbus, Ohio, Robert Post -- In Performance, Department of Dance (V. J. Blaine), 10 January 1989 through 1 April 1989. (Project 767288 - New)

**TOTAL - STATE OF OHIO AWARDS** **\$ 277,265.00**

#### **Industrial Research Contracts/Grants**

\$89,887.00 - Jarrow Formulas, Inc., Los Angeles, California, Early Cancer Detection Method, Department of Radiology (S. M. D'Ambrosio) and Department of Physiological Chemistry (R. W. Trewyn), 1 February 1989 through 31 January 1990. (Project 767284 - New)

\$60,000.00 - Sandia Corporation, Albuquerque, New Mexico, Vertical-Axis Wind Blade Section Activities, Department of Aeronautical and Astronautical Engineering (G. M. Gregorek), 1 February 1989 through 31 January 1990. (Project 767278 Continuation)

\$36,883.00 and Equipment - Apple Computer, Inc., Cupertino, California, The Engagement of Thinking Processes: A Three-Year Study of Selected Apple Classrooms of Tomorrow Students, Department of Educational Theory and Practice (R. J. Tierney), 1 January 1989 through 31 December 1989. (Project 766687 - Continuation) (Approximate Dollar Value of Equipment - \$3,135)

\$30,916.00 - Alcoa Defense Systems, Inc., San Diego, California, Advanced Antennas for Future Air Vehicles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 October 1988 through 28 February 1989. (Project 766329 - Continuation)

\$25,891.00 - General Motors Corporation, Indianapolis, Indiana, Model Test Program on Gas Turbine Air Intake and Exhaust Uptake System, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 1 July 1988 through 30 June 1989. (Project 766095 - Continuation)

\$23,428.00 and Equipment - Apple Computer, Inc., Cupertino, California, An Exploration of Hypertext upon the Thought Processes and Learning of Apple Classrooms of Tomorrow Students, Department of Education Theory and Practice (R. J. Tierney), 1 January 1989 through 31 December 1989. (Project 767318 - New) (Approximate Dollar Value of Equipment \$10,585)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Industrial Research Contracts/Grants (contd)**

\$20,000.00 - Bell Helicopter Textron, Inc., Fort Worth, Texas, Gear Noise Modeling and Prediction for a Future Rotorcraft Transmission, Department of Mechanical Engineering (D. R. Houser), 12 August 1988 through 11 February 1990. (Project 767265 - New)

\$16,000.00 - Genentech, Inc., South San Francisco, California, Tissue-Type Plasminogen Activator Versus Heparin for Acute Pulmonary Embolism: Effects on Right Ventricular Function and Pulmonary Perfusion, Department of Internal Medicine (J. E. Gadek and M. G. Lykens), 1 January 1989 through 31 December 1989. (Project 767281 - New)

\$14,850.00 - Smith, Kline & French Laboratories, Philadelphia, Pennsylvania, Comparison of Intravenous 'Compazine' Combination Therapy to Intravenous Reglan Combination Therapy in the Management of Cisplatin-Induced Nausea and Vomiting in Cancer Patients, Department of Internal Medicine (E. H. Kraut), 1 January 1989 through 31 December 1989. (Project 767294 - New)

\$12,575.00 - Universal Technology Corporation, Dayton, Ohio, Fabrication and Characterization of High Temperature Superconducting Films for Infrared Detectors, Department of Physics (T. R. Lemberger), 1 February 1989 through 30 April 1989. (Project 767285 - New)

\$10,582.00 - Chemol, Inc., Greensboro, North Carolina, Effects of Esterification and Saturation of Tallow Fatty Acids on Fiber Digestibility and Milk Production of Dairy Cows, Department of Dairy Science - OARDC and Department of Dairy Science (M. L. Eastridge), 1 January 1989 through 31 December 1989. (Project 767280 - New)

\$8,318.00 - Boeing Computer Services, Seattle, Washington, RAMCAD Software Development, Department of Computer and Information Science (B. Chandrasekaran), 1 January 1989 through 31 March 1989. (Project 766470 - Continuation)

\$6,800.00 - Caremark Plus, San Bernadino, California, Patient Education and Clinical Management Services, Department of Internal Medicine (S. P. Balcerzak), 1 October 1988 through 30 September 1991. (Project 767279 - New)

**TOTAL - INDUSTRIAL AWARDS**

**\$ 356,130.00**

**Other Non-Federal Research Contracts/Grants**

\$247,600.00 - Brookhaven National Laboratory, Upton, Long Island, New York, Boron-Neutron Capture Therapy of Cancer, Department of Pathology (R. F. Barth), College of Pharmacy (A. H. Soloway), Department of Mechanical Engineering (T. E. Blue), and Department of Surgery (J. H. Goodman), 1 October 1988 through 31 December 1989. (Project 766081 - Continuation)

\$197,067.00 - Electric Power Research Institute, Palo Alto, California, Mechanistic Studies of Hot Corrosion in Utility Boilers, Department of Materials Science and Engineering (R. A. Rapp), 27 January 1989 through 31 December 1990. (Project 767296 - New)

\$94,914.00 - Southwest Research Institute, San Antonio, Texas, Hydrogen Absorption and Potential Embrittlement of Candidate High-Level Nuclear Waste Package Containers in the Proposed Tuff Repository Environment, Department of Materials Science and Engineering (B. E. Wilde), 1 January 1989 through 31 December 1989. (Project 767129 - Continuation)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$86,310.00 - Nature Conservancy, Columbus, Ohio, Development of a Plan to Preserve the Big Darby Creek Watershed, Department of City and Regional Planning (S. I. Gordon) and Department of Landscape Architecture (J. W. Simpson), 1 January 1989 through 31 December 1989. (Project 767289 - New)

\$55,000.00 - Muscular Dystrophy Association, New York, New York, Steroid Therapy of Duchenne Dystrophy -- Molecular Mechanisms, Department of Neurology (K. W. Rammohan), 1 January 1989 through 31 December 1989. (Project 766573 - Continuation)

\$45,129.00 - Paralyzed Veterans of America, Washington, D.C., The Role of Weightbearing and FES-Induced Exercises on Bone Loss After an Acute Spinal Cord Injury, Department of Physical Medicine (W. J. Mysiw) and Department of Internal Medicine (R. D. Jackson), 1 January 1989 through 30 December 1989. (Project 767303 - New)

\$36,300.00 - Virginia Power, Glen Allen, Virginia, Duke Power Company, Huntersville, North Carolina, and Southern California Edison Company, San Clemente, California, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

\$34,819.00 - Iowa State University, Ames, Iowa, Spectroscopic Evaluation of Adhesive Bonds: Linear and Nonlinear Methods, Department of Welding Engineering (L. Adler), 1 October 1988 through 30 September 1989. (Project 767302 - Continuation)

\$29,813.00 - Iowa State University, Ames, Iowa, Nondestructive Evaluation of Structural Adhesive Bonding for Aircraft Applications, Department of Welding Engineering (S. Rokhlin), 1 October 1988 through 30 September 1989. (Project 767304 - Continuation)

\$25,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Effect of Parental Occupation on Pre-Term Birth, Spontaneous Abortion, Stillbirth, and Low Birth Weight, Department of Preventive Medicine (R. S. Hopkins), 1 January 1989 through 31 December 1989. (Project 767317 - New)

\$24,940.00 - Morris Animal Foundation, Englewood, Colorado, In Vivo and In Vitro Examination of Cell Proliferation Kinetics in the Normal and Seborrhoeic Canine Epidermis, Department of Veterinary Clinical Sciences (K. W. Kwochka), 1 November 1988 through 31 October 1989. (Project 767307 - New)

\$21,262.00 - Upper Arlington City Schools, Upper Arlington, Ohio, Career Internship Program with Upper Arlington Schools, Department of Educational Theory and Practice (J. J. Quaranta), 29 August 1988 through 26 May 1989. (Project 767293 - Continuation)

\$18,000.00 - The Petroleum Research Fund, Washington, D.C., Catalytic Organometallic Reactions: Characterization of the Active Intermediates Using X-ray Induced Auger Spectroscopy and X-ray Photoelectron Spectroscopy, Department of Chemistry (M. R. Callstrom), 1 September 1989 through 31 August 1991. (Project 767323 - New)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$14,568.00 - Indonesian Government, Jakarta, Indonesia, Partial Management Support Plan, College of Education - Administration (J. J. Buffer), 1 May 1988 through 31 December 1990. (Project 767036 - Continuation)

\$13,024.00 - Ford Foundation, New York, New York, C. S. Tewari Fellowship, Department of Natural Resources - OARDC and School of Natural Resources (C. F. Cole), 1 January 1989 through 1 January 1990. (Project 767310 - New)

\$10,123.00 - Miami University, Oxford, Ohio, Insect Cold-Hardiness and Diapause: Regulatory Relationships, Department of Entomology (D. L. Denlinger), 1 February 1989 through 31 January 1990. (Project 767299 - New)

\$10,000.00 - Lake Erie Marine Trades Association, Cleveland, Ohio, The Economic Contribution of Marine Trades in Ohio, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (L. J. Hushak), 1 January 1989 through 31 August 1989. (Project 767306 - New)

\$8,000.00 - Edison State Community College, Piqua, Ohio, Triton College, River Grove, Illinois, City Colleges of Chicago, Chicago, Illinois, and Daytona Beach Community College District, Daytona Beach, Florida, National Alliance of Community and Technical Colleges, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766839 - Continuation)

\$8,000.00 - The Ruffed Grouse Society, Coraopolis, Pennsylvania, Ohio Coverts Project, Cooperative Extension Field Operations (E. L. Smith), 1 January 1989 through 31 December 1989. (Project 767321 - New)

\$7,500.00 - American Trucking Association, Alexandria, Virginia, Feasibility Survey of the CFTD and TS Algorithms Applications in Conspicuity Problems of Truck Design, Department of Industrial Design (A. A. Bruckner), 19 December 1988 through 31 March 1989. (Project 767210 - New)

\$6,500.00 - Oklahoma Department of Education, Stillwater, Oklahoma and University of West Florida, Tallahassee, Florida, National Entrepreneurship Education Consortium, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766880 - Continuation)

\$2,500.00 - Oklahoma Department of Education, Stillwater, Oklahoma, National Consortium of State Career Guidance Supervisors, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766838 - Continuation)

\$2,000.00 - Benua Foundation, Inc., Columbus, Ohio, School Attendance Project, College of Education - Administration (T. M. Stephens), 1 December 1987 through 30 April 1989. (Project 766630 - Continuation)

\$1,000.00 - American Astronomical Society, Washington, D.C., International Active Galactic Nuclei (AGN) Watch: Multi-Wavelength Monitoring of the Variable Seyfert Galaxy NGC 5548,

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Other Non-Federal Research Contracts/Grants (contd)**

Department of Astronomy (B. M. Peterson), 1 February 1989 through 31 January 1990. (Project 767309 - New)

**TOTAL - OTHER NON-FEDERAL AWARDS** **\$ 999,369.00**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industrial and Other Sponsored Research and Development**

\$52,000.00 - General Electric, Cincinnati OH, for "Air Portugal Airlines Test Cell," under the direction of the department of Aeronautical and Astronautical Engineering for the period February 1, 1989 through April 30, 1989. (312497)

\$37,011.00 - from 37 sponsors of 51 development projects through two research areas/departments of the College of Engineering.

\$27,018.00 - EPRI, Palo Alto, CA, for "HVDC Converter Station Electromagnetic Noise Study," under the direction of the department of Electrical Engineering for the period February 4, 1986 through September 30, 1989. (529714, Ext. 2)

\$15,000.00 - from various industry in support of Fellowships for the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$12,500.00 - General Electric, Schenectady, NY, for "Ultrahigh Temperature Composite Materials," under the direction of the department of Materials Science and Engineering for the period August 1, 1986 through December 31, 1988. (312886, Ext. 4)

\$ 7,000.00 - various industry for membership in the Gear Research Laboratory under the direction of the Department of Mechanical Engineering. (529735)

\$ 2,000.00 - various industry for affiliate membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **152,529.00**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds**

The Lewis E. and Dorothy Hermann Miller  
Pharmacy Enrichment Fund

The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts from the estates of Lewis Edward Miller (B.S.Bus.Adm. '23) and Dorothy Hermann Miller (Certificate, Pharmaceutical Chemist, '21).

## REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

#### Establishment of Named Funds (contd)

##### The Lewis E. and Dorothy Hermann Miller Pharmacy Enrichment Fund (contd)

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income is to be used to support research and facilities in the College of Pharmacy as approved by the Dean of the College of Pharmacy. In the event that it becomes necessary to invade the principal to meet the above objective, the Dean may do so at his discretion, but only to support capital equipment acquisition and/or building renovations not otherwise supported.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for pharmacy education.

##### Texnikoi-Arthur C. Avril Endowment Fund

The Texnikoi-Arthur C. Avril Endowment Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with proceeds from the sale of an automobile given to the University by Mary J. and Arthur C. Avril (Bachelor of Engineering in Mining '25) of Cincinnati, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The Texnikoi-Arthur C. Avril Endowment Fund recognizes Arthur C. Avril for his role as a founding member and first president of Texnikoi, a student Engineering honorary. The annual income is to be distributed in ways which will provide future growth for the fund and for Texnikoi while recognizing excellence among current members. Ten percent of the annual earnings shall be reinvested into principal. At least one-half of the remaining annual earnings shall be used to fund scholarships for members of the Texnikoi chapter at The Ohio State University. Selection of scholarship recipients shall be based on strength of their academic performance and the quality and extent of their involvement in extracurricular activities. Recipients will be named annually, but prior-year recipients may be eligible to compete for renewed awards. The remaining income will be used for communications with Texnikoi members and for the expansion of the fraternity. The Dean of the College of Engineering, in consultation with the Chapter Advisor of Texnikoi and the Committee on Student Financial Aid, will be responsible for scholarship selection and authorizing all expenditures from the income.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**Robert M. Zollinger Lectureship Fund**

The Robert M. Zollinger Lectureship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from members of the Robert M. Zollinger Ohio State University Surgical Society and colleagues and friends of Robert M. Zollinger (B.S. '25, M.D. '27), of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support a distinguished lectureship within the Department of Surgery as approved by the department chairperson in consultation with the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**Donald H. Russ Scholarship Fund**

The Donald H. Russ Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund from the estate of Donald H. Russ (B.S.Agr. '39), of Carroll County, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarships for students from Carroll County, Ohio, who are full-time students in the College of Agriculture at The Ohio State University and have demonstrated financial need. These scholarships are renewable to the same students for a period not to exceed four years, so long as they are in good academic standing and continue to demonstrate need. Selections will be made by the University Committee on Student Financial Aid and in consultation with the Dean of the College of Agriculture.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

## **REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **Wells Nursing Scholarship Fund**

The Wells Nursing Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from the estate of Estella M. Wells of Zanesville, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to encourage individuals to pursue a career in nursing. The fund may be used for, but is not limited to, nursing scholarships and recruitment, as decided by the Dean of the College of Nursing, with advice from the director of the Office of Student Affairs and the Associate Dean of the College of Nursing, in coordination with the University Committee on Student Financial Aid. Scholarship awards may be made at the graduate or the undergraduate level. Preference at either level, however, shall be given to minority students.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donor.

##### **The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund**

The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from friends, colleagues, relatives and former students of Devon W. Meek, Professor Emeritus of The Ohio State University Department of Chemistry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to fund a lectureship for a distinguished researcher from the industrial community who will present at least one chemistry department seminar. Undergraduate poster presentations will be held in conjunction with the lectureship. They will be prepared by undergraduate chemistry majors and reviewed by a panel of faculty members. These poster presentations shall be supported by the Devon W. Meek Fund as well. These events will be held on an annual basis and will recognize Dr. Meek's efforts in developing closer industrial/academic relations as well as his role in encouraging undergraduate students to pursue careers in chemistry.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean,



## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Devon W. Meek Industrial Lectureship and Undergraduate Research Poster Presentation Fund (contd)**

department chairperson, or program administrative officer in order to carry out the desire of the donors.

##### **The Joseph P. Kinneary Scholarship Fund**

The Joseph P. Kinneary Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from former judicial clerks of Judge Joseph P. Kinneary of Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide financial assistance to one or more students with excellent academic achievement and demonstrated financial need who are enrolled in the College of Law. Recipients should demonstrate an interest in public service with preference being given to students who are seeking a federal clerkship. Awards shall be made by the Dean of the College of Law in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official who is then directly responsible for legal education in order to carry out the desire of the donors.

##### **J. Walter Severinghaus Scholarship Fund**

The J. Walter Severinghaus Scholarship Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Mrs. J. Walter Severinghaus of Scarsdale, New York, and partners of the firm, Skidmore, Owings & Merrill of Chicago, New York, and San Francisco.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the annual J. Walter Severinghaus Scholarship. The fund, in honor of the late J. Walter Severinghaus (B.Arch. '31) will provide fellowships to students who are pursuing the Master of Architecture degree at The Ohio State University after earning their undergraduate degree in the liberal arts. The fellowships are intended to encourage graduate students to consider human values in their architectural studies and in their professional careers. By so doing, they will be honoring the memory and achievements of J. Walter Severinghaus who earned both a liberal arts degree and an architecture degree. In 1970, after almost 40 years with Skidmore, Owings, & Merrill Architects, he was awarded the Doctorate of Humane Letters degree by The Ohio State University for his innovations in humanistic architecture, his designs,

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

#### Establishment of Named Funds (contd)

##### J. Walter Severinghaus Scholarship Fund (contd)

and his client relationships. The fellowships are also intended to help attract and support students who otherwise could not afford the cost of graduate education. Selection will be made by the Department of Architecture Scholarship Committee in coordination with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

#### Change in Name and Description of Named Fund

##### The Martha Miller Lotman Scholarship Fund

The Martha Miller Lotman Memorial Scholarship Fund was established February 3, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from family members, in honor of Martha Miller Lotman, formerly of Marion, Ohio. The name and description were changed April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Fifteen percent (15%) of the annual income distributed shall be added to the fund's principal. The remaining eighty-five percent (85%) shall be used for one or more scholarships to deserving students who are qualified to enroll at The Ohio State University, Marion Campus. Preference for scholarship awards shall be given to those students majoring in journalism, communication or English. The selection of the recipient(s) will be made by a committee consisting of a designated member of the family and a representative of the Dean of The Ohio State University at Marion, in consultation with the University Committee on Student Financial Aid. The University shall make all reasonable attempts to contact a family member to have a representative present during the selection process. Unused income in any given year shall be added to the principal of the fund.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official of the University who is then responsible for student scholarship awards to students of the Marion, Ohio, area in order to carry out the desire of the donors.

#### Change in Description of Named Fund

##### Metropolitan Washington, D.C., Alumni Scholarship Fund

The Metropolitan Washington, D. C., Alumni Scholarship Fund was established April 1, 1983, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University

## **REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Change in Description of Named Fund (contd)**

##### **Metropolitan Washington, D.C., Alumni Scholarship Fund**

Development Fund from alumni and friends of the Metropolitan Washington, D.C., area. The description was being changed April 7, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Until the fund reaches \$25,000 all annual income is to be returned to principal. Thereafter, the annual income shall be used to provide one or more scholarships for undergraduate students from the Metropolitan Washington, D.C., area enrolled in The Ohio State University, with preference given to students who are in the upper twenty-five percentile of a national test, such as the ACT, SAT, etc. The selection of the recipient is to be made in accordance with the recommendation of a selection committee from The Ohio State University Alumni Club of Washington, D.C. in conjunction with the University Committee on Student Financial Aid. The unused income in any given year is to be returned to principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

### **THE OHIO STATE UNIVERSITY FOUNDATION**

#### **Approval of Description and Establishment of Funds**

##### **Schoenbaum Scholars Program Fund**

The Schoenbaum Scholars Program Fund was established April 7, 1989, by the Board of Trustees of The Ohio State University through funds received by the University from The Ohio State University Foundation, which has established an endowed fund with gifts designated for The Ohio State University College of Education and the College of Business.

Income provided by the Foundation shall be used for scholarships for students entering or intending to enter, or enrolled in the College of Education or the College of Business with the following criteria:

1. Selection to begin with freshmen in the fall of 1989.
2. The scholarship will provide tuition, room, and books.
3. Each year following 1989, additional students will be selected until scholars at the freshmen, sophomore, junior, and senior levels are supported.
4. Recipients will be selected through a formula based on test scores and/or high school rank.
5. Students should show a demonstrated financial need.
6. Selected students entering as freshmen will be eligible for renewal of the scholarships provided they maintain a grade point average of 3.0 or with appeal to the financial aid committee.

**REPORT OF RESEARCH CONTRACTS, GRANTS AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY FOUNDATION (contd)**

**Approval of Description and Establishment of Funds (contd)**

**Schoenbaum Scholars Program Fund (contd)**

7. Selected students should show a potential for success as measured by academic record, extra-curricular activities, work experience and other experiences.
8. Selection of the recipients will be made by the University Committee on Student Financial Aid and, when appropriate, upon recommendation of the Deans of the Colleges of Business and Education.

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**REQUEST FOR CONSTRUCTION BIDS  
OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE  
SCOTT HALL REMODELING - PHASE I**

Resolution No. 89-92

Synopsis: The Fiscal Affairs Committee recommends authorization to request construction bids for these projects.

WHEREAS the exposed concrete in the exterior walls of Ohio Stadium is in need of cleaning, repair, and rehabilitation, and \$1,393,765.00 will be made available from the Department of Athletics for this Project, with the estimated construction cost being \$1,223,000.00; and

WHEREAS the Department of Geology and Mineralogy and the Byrd Polar Research Center need to be relocated for the planned renovation of Mendenhall Laboratory, and Scott Hall needs to be remodeled to provide temporary accommodations for these academic units, and \$460,000.00 will be made available from University funds for this first phase of the Scott Hall remodeling project, with the estimated construction cost being \$300,000.00; and

WHEREAS the University Architect's Office has provided architectural and engineering design services for these projects, and the plans and specifications have been completed; and

WHEREAS at the request of the Vice President for Business and Administration, the President recommends that the Board of Trustees authorize the request for construction bids for these projects:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or the Vice President for Business and Administration be authorized, in accordance with established University procedures, to request construction bids on these projects, and if satisfactory bids are received, to award the necessary contracts, with all actions to be reported to this Board at a later meeting.

Upon motion of Mr. Kessler, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXIV for maps of Scott Hall Remodeling - Phase I and Ohio Stadium - Rehabilitation of the Exterior Concrete, page 1029.)

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**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 89-93

Synopsis: The Fiscal Affairs Committee recommends the acceptance of the report of the award of contracts for the projects listed below to the lowest responsive and responsible bidders in accordance with University procedures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or Vice President for Business and Administration to sign the plans and specifications and, in accordance with established University procedures, to request bids and, if satisfactory bids were received, to award contracts for the following projects:

**GOLF COURSE IRRIGATION SYSTEM**

Description: This project provides for the installation of a state-of-the-art computer linked weather station to monitor and control the duration and watering sequences, modernization of existing pump controls, repairs to existing cast iron mains and replacement of all galvanized pipe with PVC lines. Construction is scheduled to begin no later than March 1, 1989, and be completed by August 31, 1989.

**General Contract**

Date Received:	December 21, 1988
No. of Bids:	3
Low Bid:	\$825,000.00
High Bid:	\$891,000.00
Estimate of Cost:	\$828,994.00
Awarded to:	Hilltop Glen Golf, Canton, MI
Total All Contracts:	\$825,000.00
Total Contingency Allowance:	\$ 61,257.00 (which is 7.4% of construction cost)
Total Project Cost:	\$887,750.00
Funding:	University Funds, Athletic Department

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS**

Description: This project provides for the renovation of approximately 3,900 square feet in the basement of Rightmire Hall for the installation of 14 growth chambers, a plant tissue culture room, a new emergency generator and new electrical distribution center. Construction is scheduled to begin January 1989 and be completed June 1989.

April 7, 1989 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (contd)**

**General Contract**

Date Received:	November 17, 1988
No. of Bids:	6
Low Bid:	\$ 65,000.00
High Bid:	\$ 93,500.00
Estimate of Cost:	\$ 90,000.00
Awarded to:	Gutknecht Construction, Columbus, OH

**Plumbing Contract**

Date Received:	November 17, 1988
No. of Bids:	4
Low Bid:	\$ 36,220 (accepted substitutions to total \$37,590)
High Bid:	\$ 51,370.00
Estimate of Cost:	\$ 45,000.00
Awarded to:	C. W. Construction, Groveport, OH

**HVAC Contract**

Date Received:	November 17, 1988
No. of Bids:	3
Low Bid:	\$ 72,680.00*
High Bid:	\$103,400.00*
Estimate of Cost:	\$ 75,000.00*
Awarded to:	Project Systems Mechanical, Columbus, OH

**Electric Contract**

Date Received:	August 16, 1988
No. of Bids:	4

\* Recommended alternates reflected in these figures.

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (contd)**

**Electric Contract (contd)**

Low Bid:	\$148,620.00*
High Bid:	\$213,500.00*
Estimate of Cost:	\$160,050.00*
Awarded to:	Jess Howard Electric, Blacklick, OH
Total All Contracts:	\$323,890.00*
Total Contingency Allowance:	\$ 34,010.00 (which is 10.5% of construction costs)
Equipment:	\$200,000.00
Total Project Cost:	\$660,980.00*
Funding:	University Funds

\* Recommended alternates reflected in these figures.

**UNIVERSITY AIRPORT RENOVATIONS 1988/1989**

Description: This project provides for updating taxiway guidance and hold signs, repairing Runway 9L-27-R and overlaying same with asphalt and constructing an asphalt apron between hangars 4 and 9 for aircraft parking and taxiing. Construction is scheduled to begin March 1989 and to be completed by June 1989.

**General Contract**

Date Received:	December 1, 1988
No. of Bids:	8
Low Bid:	\$259,395.00*
High Bid:	\$335,326.00*
Estimate of Cost:	\$342,378.00*
Awarded to:	Columbus Asphalt Paving Co., Columbus, OH

\* Recommended alternates reflected in these figures.

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**UNIVERSITY AIRPORT RENOVATIONS 1988/1989 (contd)**

**Electric Contract**

Date Received:	December 1, 1988
No. of Bids:	2
Low Bid:	\$ 49,750.00*
High Bid:	\$ 60,585.00*
Estimate of Cost:	\$389,608.00*
Awarded to:	Scioto Electrical Contractors, Lancaster, OH
Total All Contracts:	\$309,145.00*
Total Contingency Allowance:	\$ 42,038.00 (which is 13.6% of construction costs)
Total Project Cost:	\$391,111.00*
Funding:	FAA Grant and University Funds

\*Recommended alternates included in these figures.

WHEREAS resolutions adopted by the Board of Trustees at previous meetings authorized the President and/or the Vice President for Business and Administration to sign the plans and specifications, and in accordance with established University procedures, to request construction bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the following projects:

**PRESSEY HALL REMODELING - PHASE I**

Description: This project provides for the remodeling of approximately 35,050 square feet of selected spaces in Pressey hall to provide administrative support space, faculty and staff offices, teaching and research laboratories and a Speech, Language and Hearing Clinic for the Department of Communication, College of Social and Behavioral Sciences as a part of the West Campus Relocation Plan. This is a Minority Set Aside project. Construction is scheduled to begin January 1989 and to be completed by September 1989.

**General Contract**

Date Received:	October 6, 1988
No. of Bids:	3



**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**PRESSEY HALL REMODELING - PHASE I (contd)**

**General Contract (contd)**

Low Bid:	\$ 567,680.00*+
High Bid:	\$ 685,698.00*
Estimate of Cost:	\$ 540,620.00*
Awarded to:	CWC/ABC, A Joint Venture, Groveport, OH

**Plumbing Contract**

Date Received:	October 6, 1988
No. of Bids:	3
Low Bid:	\$ 34,875.00+
High Bid:	\$ 49,023.00
Estimate of Cost:	\$ 23,100.00
Awarded to:	Edmonds Mechanical Contractors, Dayton, OH

**HVAC Contract**

Date Received:	October 6, 1988
No. of Bids:	4
Low Bid:	\$ 204,198.00+
High Bid:	\$ 277,300.00
Estimate of Cost:	\$ 185,640.00
Awarded to:	Edmonds Mechanical Contractors, Dayton, OH

**Electric Contract**

Date Received:	October 6, 1988
No. of Bids:	4

\*Recommended alternates reflected in these figures.

+All contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Ohio Revised Code.

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**PRESSEY HALL REMODELING - PHASE I (contd)**

**Electric Contract (contd)**

Low Bid:	\$ 198,720.00*+
High Bid:	\$ 302,625.00*
Estimate of Cost:	\$ 188,380.00*
Awarded to:	Smith & Bruce Inc., Columbus, OH
Total All Contracts:	\$1,005,473.00*
Total Contingency Allowance:	\$ 50,873.00 (which is 5% of construction costs)
Total Project Cost:	\$1,230,212.00*
Funding:	H.B. 870, H.B. 810 and University Funds

\*Recommended alternates reflected in these figures.

+All contracts are in excess of filed estimate of cost; however, the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Ohio Revised Code.

**NORTHWEST UTILITIES PHASE I  
STORM AND SANITARY SEWERS**

Description: This project provides for the installation of a new storm and sanitary sewer line to replace the existing antiquated septic system serving the Athletic Maintenance Building, Poultry Science complex, Dakan Hall, and Brooding and Breeding Houses. Construction is scheduled to begin in March 1989, and be completed in September 1989.

**General Contract**

Date Received:	January 31, 1989
No. of Bids:	11
Low Bid:	\$712,730.00
High Bid:	\$953,953.00
Estimate of Cost:	\$989,704.00
Awarded to:	The Righter Company, Columbus, OH
Total All Contracts:	\$712,730.00
Total Contingency Allowance:	\$ 35,636.99 (which is 5% of construction cost)

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**NORTHWEST UTILITIES PHASE I  
STORM AND SANITARY SEWERS (contd)**

Total Project Cost:	\$829,425.00
Funding:	University Bonds and Senate Bill 386 Utilities and Renovation

**OARDC SUPPORT FACILITIES - BARN REPLACEMENT  
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER**

Description: This project involves the replacement of a two-story bank barn, attached sheds, and contents lost in a barn fire at OARDC property in Wooster, Ohio, in November 1985. Construction is scheduled to begin in April 1989, and be completed in August 1989.

**General Contract**

Date Received:	March 2, 1989
No. of Bids:	4
Low Bid:	\$117,500.00
High Bid:	\$140,238.00
Estimate of Cost:	\$127,550.00
Awarded to:	Finnegan Construction, Shelby, OH

**Electric Contract**

Date Received:	March 2, 1989
No. of Bids:	7
Low Bid:	\$ 14,546.00
High Bid:	\$ 25,000.00
Estimate of Cost:	\$ 19,020.00
Awarded to:	Wooster Electric, Wooster, OH

Total All Contracts:	\$132,046.00
Total Contingency Allowance:	\$ 10,569.81 (which is 8% of construction costs)
Total Project Cost:	\$158,250.00
Funding:	University Funds

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION 1**

Description: New water lines will be installed to obtain increased pressure and fire protection to the Waterman Farm Complex and Bee Laboratory. Construction is scheduled to begin in March 1989, and be completed in April 1989.

**General Contract**

Date Received:	January 19, 1989
No. of Bids:	15
Low Bid:	\$ 62,179.29
High Bid:	\$107,651.00
Estimate of Cost:	\$ 94,090.50
Awarded to:	N. M. Savko, Columbus, OH
Total All Contracts:	\$62,179.29
Total Contingency Allowance:	\$ 3,109.18 (which is 5% of construction costs)
Total Project Cost:	\$69,900.00
Funding:	University Bonds

**NOW THEREFORE**

BE IT RESOLVED, That pursuant to the actions previously authorized by the Board, the award of contracts and establishment of project funds and contingency funds for the projects listed above are hereby approved.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXV for maps of Golf Course Irrigation System, Biotechnology Center Rightmire Hall - Growth Chambers, University Airport Renovations 1988/1989, Pressey Hall Remodeling - Phase I, Northwest Utilities Phase I - Storm and Sanitary Sewers, OARDC Support Facilities - Barn Replacement, and Northwest Utilities - Water Line - Phase II, Section I, page 1033.)

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April 7, 1989 meeting, Board of Trustees

Thereupon the Board adjourned to meet Thursday, May 4, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

Leonard J. Immke  
Chairman

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APPENDIX XXVIII

PERSPECTIVE ON LAND-GRANT UNIVERSITIES

(See page 822)

## Perspective on Land-Grant Universities

Edward H. Jennings

March 31, 1989

As we look to the future of The Ohio State University and of higher education in Ohio and across the nation, it is important to do so within the context of Ohio State's history, which largely parallels the history of public higher education in the United States. Ours is a land-grant university with the characteristics and responsibilities that are the essence of our uniquely American system of higher education.

The Ohio State University was founded shortly after the enactment of the Morrill Act of 1862, which by any definition was revolutionary. Nevertheless, most of its fundamentals predate it by at least 75 years and had their origins primarily in the midwest.

The Northwest Ordinance, enacted in 1787, established the process of governance over most of the midwest and contained the first official mention of public education. The Ordinance was the first document to assign -- at least partially -- to government the responsibility of providing an educational opportunity for its citizens. This idea undoubtedly existed before the Northwest Ordinance, but it was first codified there. Spelling out this obligation and setting aside land to finance public education were radical notions, yet they provide the foundation of what we see today.

The Northwest Ordinance helped define the uniquely American approach to education that "schools and the means of education shall forever be encouraged." In other words, the Northwest Ordinance implied that education was a public good. While the benefits of education to the individual had long been recognized, the Ordinance acknowledged that education had a public value, that educated citizens were a benefit to society and, consequently, that it was appropriate for the populace as a whole to finance part of that education. This idea is well-accepted today, but 200 years ago, in a world dominated by colonialism, feudalism, and illiteracy, where the ideas of democracy were new and untried, the concept of an education for and by all of the public was radical indeed.

Public education came to be recognized as a public good not only for its economic benefits, but also because general education was necessary for democracy to survive and prosper. Thomas Jefferson understood that the public must be educated in order to be informed on the issues, ideas, and public processes in society. It was in this context that Jefferson founded the University of Virginia. While today, that university is significantly different from most land-grant universities, it nonetheless rests on the foundation of public education as a necessary component of democracy.

As the country developed, the Northwest Ordinance gradually was replaced in the midwest by the U.S. Constitution, which did



not specifically mention or assign governmental responsibility for education. These ideas of public education began to flounder during the early part of the 19th century.

The Morrill Act re-established the early ideas of public education and provided a mechanism that led to the founding of our great land-grant universities. But it was not without controversy. Introduced in the early 1850's, it barely passed in Congress in 1858, and was vetoed by President Buchanan. The act finally was signed into law in 1862 by President Lincoln. The act set aside federal lands to be used to provide the basic funding of universities with the purpose of teaching agricultural and mechanical arts, and promoting "the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Out of these roots came a model of a university that changed the face of primary, secondary, and higher education -- a system of education which transformed America. The characteristics of this educational system remain fundamental to Ohio State's mission today and, I might add, to the mission of many other colleges and universities which do not have a land-grant history.

One of the tenets of the land-grant system was that government was responsible for providing an educational opportunity to all qualified individuals -- independent of their social standing and financial needs. This land-grant idea today has been extended not only to all public institutions, but to private colleges and universities as well. Today, an opportunity for all who are qualified is a fundamental tenet practiced in varying degrees by every institution of higher education in the United States.

The key to implementing this principle is three types of government funding which take the metaphorical form of a three-legged stool: one leg being tuition, the second student financial aid, and the third opportunities to earn money for expenses and tuition through work at the university. The three-legged stool is the technique whereby government provides educational opportunities for all citizens who seek educational advancement. Low to moderate tuition, adequate financial aid, and sufficient work opportunities are fundamental constructs of higher education in America today. Some institutions -- mostly private -- emphasize financial aid more than lower tuition. Others -- mostly public -- emphasize low tuition. But all emphasize affordability, at least in their public relations. And virtually all governments -- federal, state and local -- participate in the idea of financing education for the masses.

A second concept introduced through the land-grant act is local control of institutions. In most nations today, the great universities are national universities controlled, governed, and financed at the national level and expected to direct their

attention first and foremost to national issues. In the United States, however, the land-grant movement established the concept of local control.

While there are American institutions considered to be national and international universities -- some public, some private -- it continues to be clear, particularly in the public sector, that the first obligation of the institution is to serve the city, county, state, or regional community, not the federal community. When service extends beyond the local community, it clearly is a byproduct of meeting local responsibilities or contributing directly or indirectly to the local welfare. In this context, Ohio State is, indeed, a national/international university, but our mission and responsibility is to the state. We are national/international only insofar as that scope helps us meet our local responsibilities. However, as modern communications and transportation shrink the world, Ohio State continues to extend its worldwide influence and participation.

The land-grant universities also introduced a major change in our definitions of higher education. The earlier, largely European-modeled colleges focused on liberal education with little, if any, professional or vocational education as part of the curriculum. Apprenticeships served the vocations and professions and in many cases did not require a classic liberal education. Land-grant universities were established with the mission to teach the professions of agricultural and mechanical arts. However, in the dialogue over the Morrill Act, a new idea was born that integrated liberal education with the professions in one curriculum graduating a vocationally competent and educated individual.

The Morrill Act called for a college where "the leading object shall be, without excluding other scientific and classical studies, to teach such branches of learning as are related to agriculture and the mechanic arts . . . in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." What great debates there must have been among 19th century land-grant faculties in interpreting this mandate! With agricultural and mechanical arts, should we also include Greek or Latin? Should we include Shakespeare and Chaucer, or read Adam Smith?

Out of that debate came an institution, a curriculum, and an idea which we take for granted today: that our obligation is to integrate professional and liberal education into a coherent whole. This integration creates individuals who are educated people, creative and adaptable to the future, who have learned how to learn, and who know and understand the basic tenets of their particular profession whether it is agriculture, medicine, law, engineering, dance, accounting, pharmacy, or music. While in most of the world, professional schools were -- and are -- separate, our uniquely American institutions have a full range of liberal and professional programs as part of the curriculum that we have come to expect.

Twenty-five years ago, higher education was criticized for not providing enough professional education. We were accused of having irrelevant courses in the curriculum, of not preparing people for a job or career. Today, I believe correctly, the criticism has swung the other way. We have become too vocational and have short-changed our mission of liberal education. This balancing of liberal and professional education has been going on for more than 100 years and is the source of most of the tensions in our modern universities. We constantly are faced with decisions that trade off liberal and professional education. But as we see time and time again, these tensions are also the source of our greatest strength, namely, our reliance upon each other in academe. It is rare for a professional school to be truly outstanding without other strong professional schools surrounding it or without a strong liberal arts program in existence side by side.

Furthermore, with the speed of technological change today, incorporating liberal and professional education in one whole is even more important. Biotechnology combines medicine, agriculture, and engineering with the basic sciences of chemistry, botany, and zoology. Biotechnology cannot exist without the land-grant idea of combining professional and liberal education. Materials research developing at Ohio State relies on this interdisciplinary approach, as does the further development of computers.

An excellent example of the results of combining disciplines -- professional and liberal -- is the Magnetic Resonance Imaging machines now found in most research hospitals. The MRI machines are the direct result of combining quantum mechanics and computers. While these fields developed along separate tracks for many years, they finally came together in the 1970's in response to the imperatives of medical research. Bringing together such disparate advances is an important characteristic of all universities today, but it was the land-grant idea that established the principle of combining professional and liberal education.

As the land-grant system evolved, it was recognized that the responsibility for basic research should be assigned primarily to universities, particularly in a free enterprise system. Basic research is a highly risky activity that will seldom be supported within the private sector. The great bulk of basic research today is conducted in universities, because an environment that does not require immediate results and that encourages interdisciplinary collaborations fosters basic research. Also, universities ensure that young minds surround the research enterprise and provide the continuous stimulation of new ideas, new thoughts, and new approaches to existing techniques. While applied research continues outside the university, basic research has become part of the fundamental mission not only of land-grant universities, but of all institutions of higher education.

In the 1930's, a debate raged at Ohio State and all over the country regarding agricultural research. As a cost-saving measure, land-grant universities, pressed for funds, debated whether or not to continue basic research in agriculture. After all, it did appear that the agricultural advances of the early 20th century were so great that little was left to do! Yet in the wisdom of society, agricultural research was continued. Today, fifty years later, yields in most cases are more than five times what they were in the 1930's, and advances continue to be made. The risks were obvious, the benefits unclear, and yet the research continued in universities to the advantage of our society today.

It also became clear that, as university teaching enhances research, so too does research enhance teaching both in direct and indirect, synergistic ways. It maintains a faculty member's interest. It stimulates the student's ability to learn, gather, and apply new information and test new ideas. Engaging in research keeps one more fully up-to-date in a field. And, as we see today with a few exceptions, the great research universities of America also are the great teaching universities, and vice-versa. Research and teaching go hand in hand and cannot be separated from each other. Despite "profscam" and examples of poor teaching, poor research, or both, no one suggests a separation of teaching and research. It is the degree of emphasis that is criticized.

A further outgrowth of the land-grant act is the radical concept of service as it relates to teaching and research. Land-grant universities were charged with moving their research results to the practical arena so that they could be rapidly and fully exploited by the community at large. The earliest manifestations of this were our agricultural research centers and cooperative extension programs. Through these programs we could take the newly-developed technology in agriculture and food sciences to the local grower rapidly and in a manner that would produce an immediate impact on productivity. But, the idea of service involved more than simply technology transfer. It included a commitment to the social benefits that could accrue to society if the universities became a part of society instead of isolating themselves as they had in the past.

Cooperative extension took on the additional task of educating the rural population on the problem solving required in everyday life. Home economics extension taught rural homemakers nutrition and child care, giving them the ability to prevent disease and opening opportunities for education for the next generation. Congress was lobbied for a rural electrification system. Communities were challenged to take advantage of educational opportunities to break the cycle of poverty. In Latvian communities in northwestern Ohio, Serbo-Croatian communities in southeastern Ohio, and Irish communities in Cleveland, it was the land-grant universities that provided services to these -- and all -- communities. Now, of course,

every college and university in some way engages in service activities to the betterment of society.

These several principles of education, financing, and governance that have evolved from the Morrill Act, now are part of the fabric of the American system of public education. This system continues to insist that education be made available to all qualified individuals independent of their social and financial need, and that government be a significant partner with financial support to provide moderate tuition, adequate student financial aid, and work opportunities. It is a system characterized by diversity and local control that provides all students in America the opportunity to pursue their own individual ambitions.

There are large and small universities; undergraduate and graduate schools; schools with global perspectives and those which are more narrowly focused. With local control, American higher education has developed into a system where students can choose the institution that best suits their needs. Great diversity in higher education has resulted from the Morrill Act.

From the public point of view, virtually every state in the nation has developed a system of higher education characterized by three categories of institutions. Regional differences exist but, by and large, we are a nation of community colleges or two-year schools, four-year institutions, and comprehensive institutions. The community college or two-year school is primarily local in nature, serving an individual city or county with the students not leaving home. Its educational mission is to provide technical or vocational training and/or a liberal arts program transferrable to a four-year baccalaureate degree-granting institution. It generally is the least expensive of all institutions from the student point of view and is specifically designed to respond to and satisfy the immediate and local post-secondary needs of its home city or county.

The four-year institution takes a state-wide view and has as its primary objective providing a liberal arts baccalaureate degree. It includes a smattering of professional schools and very little graduate education. The comprehensive institution offers a full undergraduate curriculum with a complete range of liberal arts programs as well as opportunities for professional education. It also has a full range of post-baccalaureate programs -- both professional and in the basic sciences and humanities. These institutions generally cater to the most academically qualified undergraduates, but they also are receiving institutions for transfer students from community colleges and four-year institutions.

Virtually all states can separate their institutions into these three categories. There are as many governing structures for these three types of post-secondary education as there are states, from single governing authorities for all institutions to separate authorities for each institution. In all cases,

however, each state has, to varying degrees, adopted for all its institutions the fundamental ideas of the land-grant institution -- financial availability, local control, mixing professional and liberal education, research, and service. Today, no single institution is able to satisfy all the needs of the state as perhaps was contemplated in the past. Today, essentially all states have established a system of diverse institutions that combine, satisfy, and embrace the land-grant ideas and ideals. Now, the land-grant fundamentals are broader and deeper than ever could have been contemplated by Congressman Morrill.

Higher education in the State of Ohio has many of the characteristics of the three types of institutions mentioned above. However, there are some unique features that bear reflection as we look to the future. Many of the larger Ohio communities have a community college which incorporates technical as well as liberal education into one institution. There are, however, several technical schools that focus solely on vocational or technical training, usually accompanied by a separate organization whose primary function is the two-year liberal arts program. These separate organizations typically are operated by a four-year or comprehensive institution in the state, which is a somewhat unusual configuration when compared to other states.

The distinction between the four-year institutions and the comprehensive institution are less clear-cut than they are in many states. The four-year institutions in Ohio have a mixture of programs from some very fine graduate and research programs to professional programs that rival any in the country, such as the engineering and medical schools at the University of Cincinnati and the urban planning program and law school at Cleveland State University. Both institutions are primarily four-year, undergraduate institutions, but they include graduate and professional education which would more generally be limited to the comprehensive flagship institutions of a state.

This blurring of categories is at least partially the result of the presence in Ohio of only one comprehensive university. Most states have at least two, and in many cases several, comprehensive institutions. A typical midwestern model is at least two comprehensive universities: one the original state university, incorporating the health sciences and a strong component in the basic sciences, and the other the land-grant university, including agriculture and engineering and very large professional schools.

The absence of other comprehensive universities in the state explains why The Ohio State University is so large. It recently was noted in USA Today that we are the largest single campus in the United States in the number of students in Columbus. We are not the largest because our individual departments are especially large. By state university standards, these departments are fairly average in size. The reason Ohio State is large is that everything exists on one campus. In other states, functions are

separated into two or more institutions: Indiana and Purdue; Michigan, Michigan State, and Wayne State; Iowa and Iowa State; Georgia and Georgia Tech; Texas and Texas A&M -- there are many such examples. We are large because by policy, this state has concentrated its comprehensive activity in one location, The Ohio State University.

Another important characteristic of Ohio is that in providing financial access, Ohio has consistently adopted a policy of being a high-tuition public university state. Both now and historically, Ohio ranks among the highest ten states in tuition. Correspondingly, Ohio ranks among the bottom ten states in the amount of state support for higher education. Many reasons exist for such a state policy, but it is worth noting that Ohio also has ranked in the lower ten states in the percent of high school students going on to college. Tuition levels are, of course, the subject of the General Assembly debate that engages us today. The outcome of this debate is, I believe, extraordinarily important as we look at charting a course for The Ohio State University in the years to come.

While there is a great deal more to discuss, this brief historical view of the University and its distinguishing characteristics should be helpful in the development of institutional policies as we move into the decade of the nineties and prepare for the 21st century.

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APPENDIX XXVIII

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
March 17, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees April 7, 1989

(See page 827)



Office of the Treasurer

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**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
March 17, 1989**

Endowment Composition

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>03-17-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 38,765,606	17.11%
Nicholas-Applegate	10,454,591	5.10	10,703,722	4.72
Siebel	34,428,707	16.81	36,651,511	16.17
Mutual Fund	17,462,592	8.53	18,695,032	8.25
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>52,221,925</u>	<u>23.05</u>
<b>Total Equities</b>	<b>\$133,632,655</b>	<b>65.24%</b>	<b>\$157,037,796</b>	<b>69.30%</b>
<b>Fixed Income:</b>				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 21,303,410	9.40%
Cambridge	921,925	0.45	905,504	0.40
Duff & Phelps	9,983,561	4.87	9,592,937	4.23
STW Fixed Income	22,300,069	10.89	21,751,369	9.60
OSU - GNMA	9,954,372	4.86	9,516,802	4.20
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,503,698</u>	<u>2.87</u>
<b>Total Fixed Income</b>	<b>\$ 71,210,234</b>	<b>34.76%</b>	<b>\$ 69,573,720</b>	<b>30.70%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$204,842,889</b>	<b><u>100.00%</u></b>	<b>\$226,611,516</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 43,089,186</b>		<b>\$ 36,571,244</b> (2)	
<b>Total Portfolio</b>	<b><u>\$247,932,075</u></b>		<b><u>\$263,182,760</u></b>	

(1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value March '88 to March '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.56% (1)	0.24%	3.80%
Common Stock (Nicholas-Applegate)	1.85 (2)	6.95	8.80
Common Stock (Siebel)	4.07 (3)	6.08	10.15
Mutual Fund	3.08	9.28	12.36
Common Stock (OSU Managed)	4.60 (4)	8.27	12.87
Standard & Poor's Index	3.82	7.96	11.78
<b>Real Estate:</b>	4.37%	-0- (11)	4.37%

**Fixed Income:**

Bonds (Boatmen's Trust, formerly Centerre Trust)	8.40% (5)	(7.18)%	1.22%
Bonds (Cambridge)	8.01 (6)	(4.37)	3.64
Bonds (Duff & Phelps)	8.82 (7)	(5.54)	3.28
Bonds (STW Fixed Income)	9.23 (8)	(4.87)	4.36
Bonds (OSU - GNMA)	9.93 (9)	(5.80)	4.13
Bonds (OSU Managed)	7.71 (10)	(0.21)	7.50
Merrill Lynch Corporate/ Government Master	8.93	(5.39)	3.54

- (1) 20.0% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.6%.
- (2) 1.4% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.7%.
- (3) 43.4% of Siebel portfolio is made up of cash and cash equivalents which earn 9.6%.
- (4) 50.5% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.7%.
- (5) 11.2% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.2%.
- (6) 100.0% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.7%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.7%.
- (8) 0.2% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.7%.
- (9) 0.3% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.7%.
- (10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.7%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through March 31, 1989, totaled approximately \$10,636,000.
- (13) Income from University Cash Investments through March 31, 1989, totaled approximately \$10,515,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>03-17-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$106,387,718	40.43%
Principal Additions	11,066,535	Fixed Income	60,591,598	23.02
Principal Withdrawals	(126,410)	Real Estate	36,458,000	13.85
Change in Market Value	<u>4,310,560</u>	Cash	<u>59,745,444</u>	<u>22.70</u>
<b>Current Market Value</b>	<b><u>\$263,182,760</u></b>	<b>Total Portfolio</b>	<b><u>\$263,182,760</u></b>	<b><u>100.00%</u></b>

maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
No Activity			

Real Estate

<u>Sale</u>	<u>Total Investment</u>
No Activity	

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
5,500	Aon Corp.	Chicago	29.1520	\$ 160,693.50	\$ 7,040.00
2,700	Brown-Forman Corp.	"	60.7890	164,305.80	4,536.00
5,700	Westvaco, Inc.	"	28.5000	162,820.50	5,244.00
1,900	Fluor Corp.	Nicholas- Applegate	24.2500	46,189.00	76.00
100	Student Loan Marketing Assn.	"	93.7500	9,375.00	36.00
8,400	Tandem Computers, Inc.	"	19.8106	166,912.82	0.00
1,900	U.S. Air Group, Inc.	"	39.3330	74,846.70	228.00
2,450	Preformed Line Products*	OSU	71.0000	173,950.00	0.00
250	Fidelity Magellan Fund*	"	52.1200	13,037.24	0.00
5,000	Morton Thiokol, Inc.	Siebel	42.8290	<u>214,495.00</u>	<u>4,200.00</u>
				<u>\$1,186,625.56</u>	<u>\$21,360.00</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
2,600	Commerce Clearing House, Inc.	Chicago	52.0000	\$ 135,200.00	\$ (19,500.00)
4,500	General Public Utilities Corp.	"	37.0000	166,201.95	12,645.00
800	Kaman Corp.	"	12.7815	10,175.20	(1,778.50)
8,500	Lance, Inc.	"	18.9375	160,437.50	2,625.00
5,000	New England Business Service, Inc.	"	20.5625	102,500.00	(2,500.00)
500	Albertson's, Inc.	Nicholas- Applegate	41.8750	20,906.80	6,584.90
1,400	Amdahl Corp.	"	19.0000	26,515.11	169.67
1,900	Consolidated Freight- ways, Inc.	"	29.7530	56,414.81	(4,147.11)
4,900	Consolidated Rail Corp.	"	35.2730	172,537.72	14,936.82
700	Inland Steel, Inc.	"	45.5000	31,806.93	5,354.93
2,400	Novell, Inc.	"	31.1456	74,749.40	8,595.71
20,000	Apple Computer, Inc.	Siebel	34.5625	<u>690,000.00</u>	<u>(122,352.50)</u>
				<u>\$1,647,445.42</u>	<u>\$ (99,366.08)</u>

The Ohio State University  
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
1,295,000	Northwestern Bell Telephone Corp. 8.125% 03/15/17	Boatmen's	9.7305	9.8692	83.5000	\$1,081,325.00
550,000	Southwestern Bell Telephone Corp. 8.250% 04/01/17	"	9.7721	9.8994	84.4240	464,332.00
1,000,000	U.S. Treasury Bond 8.875% 02/15/19	"	9.2508	9.2772	95.9375	959,375.00
925,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.0735	9.0877	97.8125	904,765.63
2,100,000	U.S. Treasury Note 9.250% 08/15/98	STW	9.3633	9.4451	98.7900	<u>2,074,590.00</u>
						<u>\$5,484,387.63</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
1,065,000	Co-operative Utility Cajun Electric Power Corp. 10.125% 03/15/19	Boatmen's	101.6550	\$1,082,625.75	\$ 17,625.75
500,000	Eastman Kodak 9.950% 07/01/18	"	98.1100	490,550.00	(9,450.00)
925,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	95.5781	884,097.66	(20,667.97)
1,750,000	U.S. Treasury Bond 10.375% 11/15/12	STW	108.1563	<u>1,892,734.38</u>	<u>(44,032.07)</u>
				<u>\$4,350,007.79</u>	<u>\$(56,524.29)</u>



THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46%	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	33,998 (1)	33,998	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	79,246 (1)	79,246	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1988	100,000	100,000	06/88
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/87
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/87
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,444,185</u>	<u>\$36,571,244</u>	

(1) Amount represents balance on loan made to Department of Aviation.

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APPENDIX XXX

TOUCHE ROSS AUDITORS REPORT

June 30, 1988

Presented to the Investments Committee

Adopted by the Board of Trustees April 7, 1989

(See page 830)

THE OHIO STATE UNIVERSITY,  
THE OHIO STATE UNIVERSITY HOSPITALS,  
THE OHIO STATE UNIVERSITY DEVELOPMENT FUND,  
WOSU STATIONS AND  
THE OHIO STATE UNIVERSITY DORMITORY REVENUE BOND FUND  
AND HOUSING COMMISSION

LETTERS OF RECOMMENDATIONS  
AND OHIO REVISED CODE COMPLIANCE LETTER  
FOR THE YEAR ENDED JUNE 30, 1988

LETTER TO THE BOARD OF TRUSTEES OF  
THE OHIO STATE UNIVERSITY  
FOR THE YEAR ENDED JUNE 30, 1988

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The Ohio State University Ohio Revised Code Compliance Letter	VII

March 21, 1989

The Board of Trustees  
The Ohio State University  
Columbus, Ohio

We have completed our examination of the financial statements of The Ohio State University for the year ended June 30, 1988, and our opinion thereon, dated November 23, 1988, which was unqualified, is included with the financial statements. Our examination was performed in accordance with generally accepted auditing standards.

Throughout our examination, we received the complete cooperation of management and the University's employees with whom we had contact. We had full access to all of the University's books, records and files that we required in our examination.

#### **SCOPE OF EXAMINATION**

The scope of our examination was designed to provide us with a reasonable basis for our opinion on the financial statements and additional information for the year ended June 30, 1988. Our scope included all departments and entities under the direct control of the Board. We were assisted in our examination by Parms & Co., a minority owned CPA firm, and staff auditors from the Office of the Auditor of State.

Because of their significance, investments, receivables, investment in plant, accounts payable and long-term debt received special audit attention. Also receiving special attention this year was the disclosure for pensions which was required as part of GASB No. 5 "Disclosure of Pension Information by Public Employee Retirement Systems and State and Local Government Employers", and the accrual for the Early Retirement Incentive Plan, because of its significant increase over prior years.

#### **EVALUATION OF ACCOUNTING PROCEDURES AND THE SYSTEM OF INTERNAL CONTROL**

As part of our examination, we made a study and evaluation of the University's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards.

We did not observe any material weaknesses in internal control.

March 21, 1989

We did, however, note instances where controls could be strengthened and efficiency improved. These matters are included in our letters of recommendations and may be summarized in the following areas:

1) **FINANCIAL REPORTING**

The preparation of the annual financial statements is a complex process and requires five months to complete. The University is presently not capable of producing accrual basis interim financial statements. The increasing complexity of the University's operations and the continuing decentralization of many accounting functions require that more resources be allocated to facilitate and coordinate the timely reconciliation and reporting of financial information or more effective methods found to reduce the time and effort involved.

2) **DATA PROCESSING SYSTEMS**

The University continues to become more reliant upon electronic data processing systems both at university systems and at various departmental levels, and the trend is to network many of these systems. Control and security issues must be continually addressed and standard policies and procedures established and maintained. Disaster recovery plans should be reviewed regularly and Internal Audit should play a greater role in the periodic review of departmental systems as well as university systems.

**STATUTORY COMPLIANCE**

We have tested the University's compliance with the provisions of laws and regulations where non-compliance could have either a material effect on the financial statements or be significant as a matter of public policy, public stewardship, or public accountability.

In our report, we state that the University was in compliance with such laws and regulations for the items tested except for the citations noted in the report. While many of these items are not significant, we do encourage the University to continue its efforts to meet the 15% minority business set-aside goal for University contracts.

**CURRENT ISSUES**

There are several current issues which we believe will impact the University in the future. The following is a summary of these issues and, of course, we would be pleased to discuss any of them with you in greater detail.

1) **UNRELATED BUSINESS INCOME TAX**

Congress is currently considering major changes in the 20-year-old system of taxing the "unrelated business income" of exempt organizations. As envisioned, the reforms would clarify the rules governing the application of the unrelated business income tax (UBIT). Ohio State could be significantly affected by the proposed changes, because it engages in several of the activities which may be defined "per se" as unrelated and, therefore, taxable.



March 21, 1989

2) IRC SECTION 89

The Technical Corrections and Miscellaneous Revenue Act of 1988 contains language which modifies Internal Revenue Code (IRC) Section 89 nondiscrimination rules applicable to statutory fringe benefit plans, such as health and group-term life insurance, and provides definitions of "highly compensated" and "part time" employees for the purpose of implementation of these rules. We recommend that a review be performed for all employee benefit plans and programs in order to evaluate compliance with these new provisions. IRC Section 89 is effective for plan years beginning after December 31, 1988.

3) OMB CIRCULAR A-133

OMB has proposed a new audit directive for colleges and universities, Circular A-133, "Audits of Institutions of Higher Education and Other Nonprofit Organizations." This would mandate a "single audit" approach for all federal funds received by the University on an annual basis.

4) AUDITING STANDARDS BOARD OF THE AICPA

In May 1988, nine new statements on auditing standards were issued. They are designed to address the perceived "expectation gap" between preparers and users of financial statements. The most visible changes from these statements are the new formats for the auditor's report and the auditor's comments on internal controls.

5) FINANCIAL ACCOUNTING STANDARDS BOARD/  
GOVERNMENTAL ACCOUNTING STANDARDS BOARD

There has been much discussion as to whether or not public Universities should follow the financial reporting requirements of the Governmental Accounting Standards Board (GASB) or the Financial Accounting Standards Board (FASB). Presently, the University must follow the requirements of GASB, and to the extent that GASB is silent on an issue, FASB. The Financial Accounting Foundation is presently reviewing this jurisdictional issue and is expected to take action on its findings by April 30, 1989.

The following items relevant to the University have been issued or are being discussed by GASB/FASB.

Statements issued by FASB during fiscal 1988:

Recognition of Depreciation by Not-for-Profit Organizations

Consolidation of All Majority-Owned Subsidiaries

Statement of Cash Flows

The Board of Trustees  
The Ohio State University

March 21, 1989

Accounting for Leases: Sales-Leaseback Transactions Involving Real Estate; Sales-Type Leases of Real Estate; Definition of the Lease Term; Initial Direct Financing Leases

Deferral of the Effective Date of Recognition of Depreciation by Not-for-Profit Organizations

The following topics have been discussed by FASB and should be published this year:

Disclosure of post retirement benefits other than pensions.

Recognition and measurement of contributions.

"Display" in the Financial Statements of Not-for-Profit Organizations.

Statements issued by GASB during fiscal 1988:

Applicability of FASB Statement No. 93, Recognition and Depreciation by Not-for-Profit Organizations, to Certain State and Local Governmental Entities

Exposure Draft, "Accounting and Financial Reporting for Risk Financing and Related Insurance Issues".

Research Report - Information Needs of College and University Financial Decision Makers.

Preliminary Views Document - Major issues related to State and Local Governmental Employers' Accounting for Pensions.

\* \* \* \* \*

We very much appreciate the opportunity to be of service to The Ohio State University and to you, its Board of Trustees.

Very truly yours,



Patrick J. O'Reilly, Partner

THE OHIO STATE UNIVERSITY  
LETTER OF RECOMMENDATIONS  
FOR THE YEAR ENDED JUNE 30, 1988

November 23, 1988

Board of Trustees  
The Ohio State University  
Columbus, Ohio

We have examined the financial statements of The Ohio State University for the year ended June 30, 1988, and have issued our report thereon dated November 23, 1988. As part of our examination, we made a study and evaluation of the University's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing and extent of the auditing procedures necessary for expressing an opinion on the University's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of The Ohio State University is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.

November 23, 1988

Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of The Ohio State University taken as a whole. Our study and evaluation disclosed no condition that we believed to be a material weakness. However, we did note the items described on the following pages which we wish to bring to your attention.

The letter of recommendations for the University Hospitals, OSU Development Fund, WOSU Stations, OSU Dormitory Revenue Bond Fund and OSU Housing Commission have been previously issued. Copies of these letters are included for your review.

Items denoted with an asterisk (\*) were included in the prior year's report and were considered appropriate for inclusion in this letter.

This report is intended solely for the use of management and the Board of Trustees and should not be used for any other purpose. This restriction is not intended to limit the distribution of this report, which, upon acceptance by the Auditor of State of Ohio, is a matter of public record.

*Tauke Rom vls.*

Certified Public Accountants

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

\*1. Observation

Tape files can be accessed by unauthorized personnel. It is our understanding that the University has purchased and is implementing a security package called Top Secret from Computer Associates.

Recommendation

We recommend that the implementation of Top Secret be completed as soon as possible.

University Response

Respondent: Larry Buell, Assistant VP University Systems

University Systems has purchased the security package called Top Secret from Computer Associates. This product was delivered in March 1988. An analyst has been assigned to create an implementation plan. Total implementation of this product is estimated at two years. However, the product will be phased in over this time period. The target date for completion is January 1, 1990.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

\*2. Observation

There is no formal written disaster recovery plan in effect for the University Systems.

Recommendation

A disaster recovery plan should be documented and tested to enable University Systems to recreate the system and resume processing in the event of a critical failure or destruction of data processing capability. The plan should address as a minimum:

- Hardware/alternate processing site
- Data communications
- Master files/database records
- Operating system and application programs
- Transaction data
- Special documents or forms
- Duties and responsibilities

Due to the varying operating procedures required by the University during the year and the limited capacity available from the University's backup systems, critical applications should be identified and prioritized to ensure limited on-going support until full operational capabilities can be resumed. In addition, a risk review should be performed as part of the annual testing to ensure that the University has adequate insurance to cover the equipment, software, reconstruction of programs and data and business interruption costs.

University Response

Respondent: Larry Buell, Assistant VP University Systems

We are reviewing the requirements for a formal written Disaster/Recovery Plan. We have recently met with a Disaster/Recovery Consultant Firm and further discussions are planned, however, we believe the time and expense involved to develop this capability will be astronomical. We have discussed the Disaster/Recovery need with the senior management of the Computer Centers located at The Ohio State University and we all agree there is a mutual need to support any extended outage. The target date for a review is April 1, 1989.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

3. Observation

Due to recent key personnel changes within University Systems and the fact that University departments are performing more of their own computer processing, senior members of the University Systems are unsure of the direction of the University Systems data center.

Recommendation

Once selected, the Assistant Vice President of University Systems should set as a priority the determination of the direction of the University Systems and communicate this with the employees.

University Response

Respondent: Larry Buell, Assistant VP University Systems

A revised statement of direction has been developed. It has been posted and distributed to University Systems employees and to the University community as of January 1, 1989.



THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

4. Observation

The primary responsibility of the University Systems Security Administrator is the implementation of Top Secret and monitoring the physical security of the University Systems building.

Recommendation

In addition to monitoring the implementation of Top Secret and building security, Security Administration should perform various procedures to protect the data and resources from unauthorized access, loss, embezzlement, theft, natural disasters and fraudulent activities. These various procedures should include as a minimum:

- Periodic reviews of transaction logs.
- Periodic tests of the tape file backup procedures and inventories of tapes at backup locations for proper files and generations.
- Assistance with the development and testing of the disaster recovery plans.
- Periodic reviews of the application development and change procedures to ensure compliance with established standards.
- Reviews of the organizational structures to ensure adequate segregation of critical duties.
- Periodic reviews of the security systems to ensure passwords are periodically changed and adequately controlled.
- Reviews to ensure that output is properly distributed.
- Reviews to ensure that established physical security procedures are performed.

The Security Administration function within University Systems should be restructured and staffed to allow for the above procedures to be performed.

University Response

Respondent: Larry Buell, Assistant VP University Systems

We agree with the recommendations. The audit of inventoried tapes and reviews of physical security are currently being done. The remaining ones will be implemented as time permits.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

University Systems

5. Observation

University Systems presently maintains a number of separate data base files, each requiring its own programmers for support. The present backlog of programs to be modified or developed for the data bases is approximately one year. User departments not utilizing a separate data base receive limited application development support.

Recommendation

We recommend that a Steering Committee be created to provide guidance and direction for University Systems. The Steering Committee should be responsible for prioritizing projects to ensure compliance with overall University goals. Additionally, the Steering Committee should strive to integrate the various user data bases to reduce redundancy of data, to reduce the need for separate data base programming staffs, and to provide better support for non-data base users.

University Response

Respondent: Larry Buell, Assistant VP University Systems

University Systems is in the process of selecting members to serve on the Steering Committee. The Steering Committee's function and responsibilities will be the same as outlined in the report created by The Task Force on Computers and the Future of the University Committee.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

IRCC Systems

6. Observation

The Director of Academic Computing has the responsibility of reviewing all university purchases of computer hardware and software to ensure compatibility. The present system for requiring vendors to demonstrate their system's compatibility on the University's network appears to be working well. However, a consolidated list of approved vendors, equipment and software has not been provided to the user departments.

Recommendation

A consolidated list of approved vendor hardware and software should be maintained and distributed to the user departments. This approved list should ensure system compatibility and reduce departmental review time by limiting the systems to those on the approved list.

University Response

Respondent: Robert S. Dixon, Director of IRCC

The recommendations do not accurately portray the current status. Here is the actual situation:

1. When a vendor asks IRCC about compatibility with the campus network SONNET, we ask them to provide us with their hardware and software so that we can test it ourselves. No vendor has total compatibility; it is a matter of degree, with some features working well, some working poorly, and some which are totally absent. We write a report explaining all this, give the vendor an opportunity to clear up any misunderstandings and then make the report available to all interested parties. However, thus far this complete process has only occurred for one vendor, despite promises from others to participate. Another test is now in progress, and several others are scheduled. The net result is that there cannot be an "approved" list, only a "tested and evaluated" list.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

IRCC Systems

University Response - (Continued)

2. The above testing process has almost nothing to do with the approval of University purchases by IRCC. Almost all purchases are for microcomputers, and they do not directly attach to the network, so the testing is irrelevant for them. They attach via servers, which are ordered only rarely.
3. A document describing "recommended" microcomputer systems is published.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Billings and Accounts Receivable System (BARS)

\*7. Observation

Reconciliations between the BARS and FAS are not being performed. BARS is a complex system whose transactions create significant accounting entries which affect many FAS accounts. Quarterly reconciliations provide for the timely identification and correction of errors in FAS. Such reconciliations are critical control procedures to assure all transactions are properly recorded in both BARS and FAS.

Recommendation

We recommend that reconciliations be prepared quarterly by Fees and Deposits for the following items:

1. The aged accounts receivable trial balance (both student and third party).
2. Deferred revenue accounts.
3. Fee payment authorization accounts.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

Reconciliations are performed on an annual basis. Quarterly reconciliations were not achieved during the fiscal year 1987-1988; however, attempts will be made to implement these reconciliations during fiscal year 1988-1989.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Billings and Accounts Receivable System (BARS)

\*8. Observation

A detailed accounts receivable trial balance is maintained but not reconciled on a quarterly basis for the third party accounts.

Recommendation

A detailed accounts receivable trial balance should be maintained on a quarterly basis for third party accounts and reconciled to the summary totals in the aged accounts receivable report.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

Reconciliations are performed on an annual basis. Quarterly reconciliations were not achieved during the fiscal year 1987-1988; however, attempts will be made to implement these reconciliations during fiscal year 1988-1989.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Billings and Accounts Receivable System (BARS)

9. Observation

Charges for employee fee authorization expenses are not being posted to the individual department expense accounts on a timely basis. This is due to the lack of a coordinated effort between the Office of the Treasurer and Personnel Services.

Recommendation

In order for the individual departments to be charged in a timely manner the Office of the Treasurer and the Office of Personnel Services should jointly develop and implement a system to transfer expenses related to employee tuition fees.

University Response

Respondent: (1) Al Rodack, Associate Treasurer, Treasurer's Office

A system was implemented beginning Summer Quarter of 1988. An invoice is sent to Personnel Services during the seventh week of the quarter (after BARS clean up processing). Personnel Services then has two weeks to pay the invoice. Their payment generates charges to the appropriate departmental expense accounts.

Respondent: (2) Madison H. Scott, VP, Personnel Services

The Office of Personnel Services and the Office of the Treasurer have jointly developed a mechanized system which will enable Employee Fee Authorizations to be processed more efficiently. Specifically, during the seventh week of the current quarter Fees and Deposits will forward a mechanized listing of participants to the Office of Personnel Services. From this listing, no later than the eighth week of the current quarter, the Office of Personnel Services will charge the value of the Employee Fee Authorizations to the respective departmental expense accounts.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Cash Receipts

\*10. Observation

The armored car delivery service adheres to a fixed pick up and delivery schedule at the remote cash collection areas. While the armored car delivery service is liable for funds stolen once the armored car has arrived at a collection point for a pick up, they are not liable for funds stolen just before the armored car has arrived (the time with the most risk of theft as the greatest amount of dollars are on hand).

Recommendation

In order to reduce the risk of theft at the remote cash collection areas, we suggest that this schedule be changed periodically for each collection point.

University Response

Respondent: Al Rodack, Associate Treasurer, Treasurer's Office

We have decided we should not follow this recommendation at this time. We would incur significant additional costs with the armored car company. Operationally, it would be difficult, if not impossible, to coordinate a dynamic pickup schedule with the numerous collection points. We feel that there is minimal risk with the present system. As a practical matter, pickup times do vary at each collection point from one day to the next. Additionally, we do not feel that a changing collection route would result in less exposure to robbery. Based upon these factors, we do not plan to implement this recommendation at this time.



THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

\*11. Observation

During our testing of the purchasing and accounts payable system, we noted that invoices entered by Residence and Dining, the Ohio Agricultural Research Development Center and the Cooperative Extension Services were not properly cancelled upon data entry. This presents the opportunity for duplicate payments to be made in error.

Recommendation

The accounts payable policy requiring the data entry clerks to stamp their name on each entered invoice should be enforced. Satellites should be operating under accounts payable standard policies and procedures.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation and concur with the findings. Currently, Accounts Payable is developing an internal audit program and is anticipating performing audits on Satellite Accounts Payable offices. We will discuss both the observation and recommendation with the appropriate personnel in the Satellite Accounts Payable offices.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

\*12. Observation

Currently, all vendor invoices which are below \$1,000 are automatically paid within 30 days unless the department submits a document to accounts payable requesting that the invoice not be paid. This negative approval approach assumes the department will receive and review invoice copies in time to stop the processing of a check if necessary. However, during our testing, certain departments indicated they do not always receive copies of invoices in time to stop check processing.

Recommendation

We recommend that when invoice copies under \$1,000 are sent to a department for review, a control sheet detailing these invoices be included for the department head to sign off his approval to pay and then return to accounts payable prior to checks being distributed.

University Response

Respondent: Janet Achterman, University Controller

We understand the concern and content of the observation. However, we are unable to determine the number of departments and the frequency of occurrences of untimely receipt of invoices. As a result, it is difficult to determine the cost-benefit of implementing such a program.

The control sheet discussed in the recommendation is the Accounts Payable Turnaround Document. This report was designed for 100 percent Exception Approval and will be placed into weekly production if 100 percent Exception Approval is implemented. This document will be sent to each department and returned to Accounts Payable with the departmental approval.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

\*13. Observation

For goods received by a department rather than through central receiving, we noted several instances in which the department had no receiving record or packing slip. The departments with exceptions are as follows:

- Department of Physics
- Department of International Studies
- Facilities Engineering
- Ohio Union
- Office of Academic Affairs

Recommendation

The University should enforce its policy requiring departments to retain a record of receipt of goods.

University Response

Respondent: (1) James Garland, Chairperson, Physics

The reason these, and possibly other, packing slips are missing is because some of our faculty receive delivered items, open the package and either discard the packing slip or lose it. The department administration and our capable fiscal operation staff understand, agree with, and attempt to follow University procedure in these matters. It is frustrating to us, and adds to our accounting problems when these procedures are not followed. We shall continue our efforts to enlist better cooperation.

Respondent: (2) Stephen J. Summerhill, Assistant Vice Provost  
International Studies

The instance of an absent packing slip occurred with a computer item which, unlike normal circumstances, the supplier delivered and installed at the same time. The item in question, an Etherlink Board, was in fact installed and is presently operational in our computer Local Area Network.

It was our oversight not to request the packing slip of the supplier. The oversight was caused by the special circumstances. We will be sure to request packing slips in similar situations from now on.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

University Response - (Continued)

Respondent: (3) Stuart Brace, Director Hospital Facilities  
Engineering

I believe that the facts are correct and therefore concur with the findings. I also accept the recommendation and my staff have taken the appropriate steps to correct this problem.

Respondent: (4) David Mucci, Acting Director, Ohio Union

It is the policy of the Ohio Union to keep packing slips whenever possible. Many of our vendors do not send packing slips with the order but instead they send the invoice with the order. When this is the case it is our policy to check the order and sign the invoice to indicate that the delivery was received.

We have in the past had trouble with the invoices for Nickles Bakery not being signed due to the early hour of their delivery. We have informed our staff that the order is still to be checked and the invoice signed before the invoice will be processed for payment.

Respondent: (5) David Boyne, Associate Provost, Academic Affairs

We acknowledge that on a book purchase during 1987-1988 this office did not retain the packing slip for the book.

In a meeting on September 30, 1988, we will inform all secretaries and support staff that receiving records and packing slips will be retained on all purchases for the office.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

14. Observation

Many authorized signer cards are either out of date or missing.

Recommendation

In order for purchasing to perform a proper review of purchase order and purchase requisition authorization, we recommend that current authorized signer cards from each department be obtained.

University Response

Respondent: Penny O'Neil, Assistant VP, Business Services

The concept for Purchasing to have an up-to-date file of signature authorization cards was fine in earlier times. However, as we become more automated, especially with on-line requisition entry, it must be the using department's responsibility to establish appropriate authorization procedures. We will continue to evaluate the need for signature cards, especially for those departments which do not have on-line requisition entry capability.

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

Purchasing and Accounts Payable

15. Observation

The accounts payable system (PDS) does not have an automated interface with the purchasing system to allow payments made to be posted against purchase orders. Consequently, the Purchasing Department does not have a transaction history by purchase order readily accessible to be used for vendor assistance and purchase order monitoring.

Recommendation

Consideration should be given to modifying the current systems to allow for such an interface.

University Response

Respondent: Janet Achterman, University Controller

We disagree with the observation. Currently, the Purchasing Department does have transaction history by purchase order readily accessible to be used for vendor assistance and purchase order monitoring. The Purchasing Department has terminals which access the accounts payable system (PDS).

We will work with the Purchasing Department as requested to develop an automated interface between the purchasing system and the accounts payable system (PDS).

Respondent: Penny O'Neil, Assistant VP, Business Services

We agree with this recommendation. Preliminary work on this has been started. Work will resume after the new release of the purchasing system has been installed (approximately 11/15/88).

THE OHIO STATE UNIVERSITY

LETTER OF RECOMMENDATIONS

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Purchasing and Accounts Payable

16. Observation

The purchasing system does not monitor whether a department completing a purchase order is an authorized user of the FAS account to be charged.

Recommendation

In order to reduce the likelihood of expense misclassification, consideration should be given to modifying the purchasing system to provide this review.

University Response

Respondent: Penny O'Neil, Assistant VP, Business Services

One feature of the new release is account validation. The department number and accounting information must match the FAS master chart of accounts in order to continue entering the requisition.

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Personnel Services

\*17. Observation

For each salary payroll processed, the individual payroll notice card (PNC) gross amount is compared to the proof listing prior to approval of the check run.

Recommendation

As each PNC addition or change has already been checked more than once prior to the receipt of the proof listing, we recommend a tape be run on the PNCs and the total compared to the total on the check proof listing. If no discrepancy is found between the two totals, check processing may then be approved.

University Response

Respondent: Madison H. Scott, VP, Personnel Services

On-line payroll processing will eliminate the need for the PNC. Until this new system is installed, we suggest that the current procedures be continued.



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Personnel Services

\*18. Observation

Current information is not maintained for all departments for calculation of accrued vacation and sick leave expense by the University. We understand that this responsibility has been considered to be that of each individual department. However, during our testing of payroll benefits, we noted certain departments which were not keeping adequate vacation and sick leave documentation.

Recommendation

We recommend that the Office of Personnel Services consider implementation of an automated timekeeping system, which would automatically calculate sick and vacation balances, on a University-wide basis. Until such a system is implemented, the Office of Personnel Services needs to keep the fiscal officers of each department or college unit aware of their responsibility to maintain vacation and sick leave documentation.

University Response

Respondent: Madison H. Scott, VP, Personnel Services

The Office of Personnel Services has and continues to consider implementation of a comprehensive automated timekeeping system for all University employees. This consideration will become a higher priority when sufficient resources are available to develop such a system on a University-wide basis. In the interim, University Systems, with the approval of the Office of Personnel Services, has developed a vacation and sick leave tracking system. This automated process was approved by Internal Audit, and is available on a University-wide basis. In conjunction with introducing this new system to the University Community, the Office of Personnel Services will continue to stress the importance of maintaining viable vacation and sick leave records.

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Moveable Equipment

\*19. Observation

The Department of Medicine and Hospital areas present special control problems to the University in terms of maintaining accurate location records, due to the necessity of moving special equipment to where it is needed.

Recommendation

Although it is impractical to monitor movement within these locations, we do recommend that the University investigate the feasibility of a tagging system for moveable equipment within these areas to detect whenever this equipment is removed from its assigned area. Movements of this nature could then be controlled through the moveable equipment data base by completing the OSU property status change form, or through logs maintained at each location for short-term movements.

University Response

Respondent: David Marsh, Assistant VP, Campus Planning and Space Utilization

University Hospital is installing a new data base to track moveable equipment. The Division of Equipment Inventory is working with the hospital to build an interface with EIS. The hospital has been working with our downloaded information to create their data base, but this has been more involved than they expected. Once we get the two data bases in sync and determine how to capture new information, we will address the recommendation.

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Financial Accounting System (FAS)

\*20. Observation

The University's Financial Accounting System is infrequently reconciled to the University Hospitals and OSU Research Foundation records. This appears to be the result of the following:

- a) In some cases, the entities' records are maintained on a different basis of accounting for purposes of reporting than that of the University.
- b) A lag often exists from the time that a transaction is recorded by the individual entity until it is recorded by the University.
- c) In some instances, the difficulty is compounded by entries which are recorded by the entity but fail to be transmitted to the University and FAS.

Recommendation

We recommend that management assign responsibility to accounting personnel from the University Hospitals, OSU Research Foundation and the University to reconcile their accounting on at least a quarterly basis. We understand that such procedures are actively being established with the University Hospitals and encourage the same be done with OSU Research Foundation.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation and will continue to work with University Hospitals and the OSU Research Foundation to complete quarterly reconciliations.

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Intra-University Billings

\*21. Observation

During our year end audit work, we noted that intra-university billings were not being made by the University Architects Office on a timely basis.

Recommendation

We recommend that the University Architects Office work to bring such billings up to date.

University Response

Respondent: Dick Eschliman, Assistant VP, University Architect

We learned that Touche Ross' comments were based on information obtained from the FAS AM091 report for May 31, 1988. We agree that at May 31, 1988 our position per the AM091 report looked unsatisfactory.

It should be noted, however, that adjustment and accruals for the entire 1987-1988 fiscal year were not processed until June, 1988. Therefore, the information on the May AM091 was not an accurate statement of our actual position.

Our account position was as follows for Work-in-Progress: May 1988 AM091 - \$8,545,032.22; June 1988 Actual - \$2,859,661.90.

We feel our department made substantial progress in rectifying the billing situation during fiscal year 1987-1988 (\$7,762,213.46 billed). In addition, our department will process adjustments and accruals on a monthly basis during the 1988-89 fiscal year.

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Business Management

22. Observation

Reconciliations between the bank deposit slips and the bookstores' daily sales report are not being performed on a timely basis.

Recommendation

We recommend that the reconciliations between daily deposit information and recorded sales be performed in a timely manner.

University Response

Respondent: A.J.R. VanBuren, Assistant VP, Business Services

The bookstores' accounting section implemented additional procedures in June, 1988, to assure that bank deposit slips are received from all stores for all cash, check and charge card deposits, and that the deposit slips match the amounts reported on the stores' daily reconciliation form. The reconciliation generally takes place within 48 hours of the receipt of the bank deposit slips.

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Internal Audit

23. Observation

As the University departments continue to purchase their own hardware and software, the future trend will be to network various departmental systems and utilize SONNET. The control and security issues relating to departmental systems are as critical to the departments as are the issues relating to University Systems.

Recommendation

Internal Audit should periodically review the departmental computer systems to ensure that control and security issues have been adequately addressed. These reviews should be performed to ensure that data are properly managed and protected securely against risks such as unauthorized access, loss, embezzlement, theft, natural disasters and erroneous or fraudulent activities.

Adequate policies and procedures for each departmental system should be reviewed to give control assurance that the data is safeguarded and that complete, accurate, authorized, consistent, timely, reliable and usable data and information are produced for the intended purposes.

University Response

Respondent: Mark A. Hilligoss, Director, Internal Audit

While we agree with the observation, we have conducted reviews of departmental systems within the limits of our resources. Specifically, during fiscal 1988, our system reviews included two micro-computer based systems, Expenditure Tracking System and Vacation/Sick Leave System; College of Dentistry; University Library; Traffic and Parking; Mershon Auditorium; University Health Services; and Ohio Union's Dash Cash System. Our departmental computer audit program addresses the risks stated in the recommendation. Also, the program has been enhanced to address network concerns that include SONNET.

Recognizing the need for increased abilities to review diverse departmental systems, we conduct in-house EDP training for our auditors to enable them to become and remain current on new trends and technologies in data processing.

We are unable to increase our emphasis in the EDP area without shifting resources from operational and financial audits, given our present commitment of resources to the mission of adequately ensuring balanced coverage regarding financial, operational and EDP risk areas.

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Division of Accounting

24. Observation

There is no formal documentation of the monthly reconciliation which is performed between the accounts payable trial balance and the FAS account balances. Such documentation provides for timely identification and correction of errors.

Recommendation

The Division of Accounting should document the monthly reconciliation between the accounts payable trial balance and the FAS account balances.

University Response

Respondent: Janet Achterman, University Controller

We agree with this recommendation. Beginning June 30, 1988, the monthly reconciliation process is being documented.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

YEAR ENDED JUNE 30, 1988



November 23, 1988

Boards of Trustees  
The Ohio State University and  
The Ohio State University Hospitals  
Columbus, Ohio

As part of our examination of the financial statements of The Ohio State University for the year ended June 30, 1988, we studied and evaluated The Ohio State University Hospitals' system of internal accounting control to the extent we considered necessary in order to meet the requirements of generally accepted auditing standards. These standards require a study and evaluation of internal accounting control only for the purpose of determining the nature, timing and extent of auditing procedures necessary for expressing an opinion on The Ohio State University financial statements. Our study and evaluation was, therefore, more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole and would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control.

Our study and evaluation, made for the limited purpose described above, disclosed no conditions that we believe to be a material weakness. However, we did note the items in the following pages which we wish to bring to your attention.

We also have reviewed the status of our prior year recommendations and we noted that the Hospitals have taken appropriate action in implementing most of the recommendations. Items not fully implemented are noted with an asterisk (\*) in this report.

This report is intended solely for the use of management and the Boards of Trustees and should not be used for any other purpose. This restriction is not intended to limit the distribution of this report, which, upon acceptance by the Auditor of State of Ohio, is a matter of public record.

*Touche Ross & Co.*

Certified Public Accountants

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

1. Data Center Physical Security and Environmental Controls

During a tour of the Hospitals data center, physical security and environmental control weaknesses were identified. The roof leaked above the computer equipment due to construction efforts. The cooling systems used are experiencing mechanical failures. Due to the size of the facilities and the large amount of equipment, there is little room available for future expansion and a concern regarding the effectiveness of the Halon fire extinguishment system. The rear door to the computer room, leading into an alley, does not have an alarm to alert personnel of unauthorized entrance or exit from the facilities.

Recommendation

We recommend that the following be implemented to strengthen the physical security and environmental controls of the Hospitals data center:

- a) Due to size constraints of the computer room, a facilities review should be conducted to identify possible new locations for the center having adequate size for expansion. The results should then be reviewed and consideration given to relocating or expanding the computer facilities.
- b) Computer equipment is required to be maintained at specific temperatures. The present air conditioning units are old and have had maintenance problems. Consideration should be given to replacing the air conditioning equipment.
- c) Because of the quantity of equipment in the computer room and the limited size, a study should be performed to review whether the Halon fire extinguishment devices are adequate to extinguish a fire from within the facility.
- d) In order to control access into and out of the computer room, an alarm should be connected to the computer room's rear exit door. The purpose of the alarm is to alert personnel of someone possibly gaining unauthorized access and to discourage employee theft.

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- e) We understand that the leak in the roof has been repaired; however, periodic reviews of the departmental computer facilities and the Hospitals data center should be conducted by the Security Specialist in order to ascertain the security of the equipment from theft, fire, water, heat, humidity and other disasters.

Status of Observation

- a) The Computer Operations Department is currently in the process of reviewing space for hardware within the Computer Center. This process has taken a two phase approach, with the first phase involving re-allocation and renovation of existing raised floor space to accommodate growth over the next 1-3 years. This first phase was completed in September of 1988 and is currently in the process of being implemented. The second phase of the process involves total review and capacity planning for total square footage requirements covering a 3-15 year time frame. This study covers total facility needs and includes evaluation of possible new locations.
- b) Environmental control systems in use in the computer room are aging and will be considered for replacement in conjunction with overall facilities planning. While we have had some maintenance calls on these units, we have experienced no significant problems in keeping them in operation.
- c) We agree with this recommendation and will commission a study of the HALON system.
- d) Alarms are not necessary since the area is attended at all times and entrances are within site of the operators in attendance.
- e) While all departmental computing facilities do not fall under the control of Computer Operations or Information Services, those that do are constantly reviewed for protection of equipment. Deficiencies are dealt with when identified.

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2. Network Data Security

With the installation of the network connecting the departmental computer systems, the issues of data security have not been adequately addressed. Based upon discussions with several staff members, in some areas, the use of password security for the Hospitals is used only as a formality. It appears that it is common practice to distribute system passwords to an entire department. In some areas, once a computer terminal has gained access to the system, terminals are allowed to remain on-line unattended from early morning until the system automatically shuts the terminals down at around 1:00 a.m. A clear audit trail of who has accessed files does not exist. Severe consequences such as litigation due to unauthorized access of patient files may result, should the security of data not be strengthened.

Recommendation

We recommend that the following be implemented to strengthen data security within the Hospitals' systems network:

- a) A Security Committee, reporting directly to the Administrator of Information Services, should be created to review the security issues concerning the network and to ensure the development of enforceable security policies. At a minimum, the committee should consist of the following personnel:
  1. A liaison between the User departments and Information Processing.
  2. A member of Patients Rights (for confidentiality issues).
  3. The Medical Records Administrator.
  4. The Patient Admitting Administrator.
  5. The Director of Hospital Security.
  6. The Director of Outpatient Operations.
  7. The Manager of Risk Management.
  8. A member of Internal Audit.
  9. A senior member of computer operations (for advice concerning system security capabilities and implementation).

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- b) Because of the complexities of the Hospitals' systems network and the sensitivity of the data, a full time Data Security Specialist position with staff, should be created and filled. The Security Specialist should report directly to the Administrator of Information Services and to the Security Committee. The security staff should perform various procedures to protect the data and resources from unauthorized access, loss, embezzlement, theft, natural disasters, and fraudulent activities. These various procedures should include at a minimum:
1. Reviews of the security systems to ensure passwords are periodically changed and adequately controlled.
  2. Reviews to ensure that established data and physical security procedures are complied with.
  3. Daily reviews of transaction logs to identify security weaknesses or breaches.
  4. Oversee the physical security of the various departmental and Hospitals systems computers by ensuring that strict access policies have been developed and enforced as well as ensuring that the systems are adequately protected from natural disasters such as heat, humidity, fire, water and electrical outages.
  5. Assistance with updating and testing of the Hospitals Systems Disaster Recovery Plan.
  6. Periodic tests of the tape file backup procedures and inventories of tapes at backup locations for proper files and generation.
  7. Periodic reviews of the application development and change procedures to ensure compliance with established standards.
  8. Reviews to ensure that output is properly distributed.
- c) Due to the sensitivity of patient files and data, we do not recommend that the Hospitals systems be connected to the SONNET (System Of Neighboring Networks) system.
- d) A transaction audit trail should be created to permit the Security Specialist to trace each transaction to a specific person, to determine the files accessed and the changes made for any system transaction.

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- e) Computer terminals not being utilized for a limited period of time should be automatically signed-off of the system.

Status of Observation

Until recently, the management of password assignment was primarily the responsibility of the supervisors and directors of each department on an application by application basis. Some departments had tight, well maintained security, while others did not. As system management has become more centralized, so has the management of password security; the Information Services Division now plays a direct role in the management of password security assignments. The assignment of "department passwords" will be carefully scrutinized in the future. Further explanations of password security within the Hospitals is detailed in the document, titled CICS Security Procedures; further discussion of security philosophy is in the description of the Data Security Committee that follows.

- a. In the summer of 1988, a Management Council Committee was formed to address Data Security within the Hospitals' changing Information Systems environment. The Chair of the committee, the Coordinator for Clinical Information Systems, reports to the Administrator for Information Services. This committee meets once a month for the purpose of enhancing existing and/or developing new Policies and Procedures necessary for Data Security.

Currently the committee is conducting a national survey of other major medical centers and their security policies. The focus will then be on OSUH's new development projects within the Network environment. The initial phase of the Hospitals Network System represents clinical computing; therefore, the committee is focused on the future needs of interactive and widely used clinical applications and systems. In particular, the access of patient information from off-site facilities and staff, as well as use by in-hospital personnel is being reviewed.

The Committee plans to make Policy and Procedure recommendations in June, 1989.

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Status of Observation (Continued)

- b. While the addition of any staff to the department would be appreciated, the security of systems is managed by both the procedures outlined in CICS Security Procedures, (specifically under the headings DAILY, WEEKLY, and SIX MONTHS) and by the Coordinator for Clinical Information Systems. This position has responsibility for Clinical Information Security and also chairs the Management Council Committee for Data Security described above. The method of follow-up and enforcement of policies is also being addressed by the Data Security described above. The method of follow-up and enforcement of policies is also being addressed by the Data Security Committee and any changes or enhancements will be included in the recommendations made to Hospitals Administration in June.
- c. The issue of security in regards to SONNET is and has been reviewed by experts from across the University. While it is considered desirable, particularly in support of the research mission of the University to have access to SONNET, until the security can be guaranteed to both the Hospitals' and to University Systems, there will be no connection between these systems.
- d. As new systems are developed in the Network environment, the project development teams are specifying that audit trails be produced as interactive systems are developed.
- e. The Hospitals recognize and agree with the observation concerning the automatic logging off of terminals. A project is currently underway to upgrade the release of CICS running on the mainframe computer. In this release upgrade is included the capability to specify automatic logouts for all terminals, on a case by case basis. With this enhancement the issues of automatically logging off terminals can be effectively addressed without detriment to daily operations in the areas affected.

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3. Payroll

It was our understanding that the cost centers were to review the Employee Report of Time to verify payroll input. During our testing, we noted that this was not being performed.

Recommendation

The Hospitals' cost centers should perform a verification of payroll input and output. We are aware of several cost centers which record employee hours per time sheets and verify these hours to payroll output. This policy should be enforced for all cost centers.

Status of Observation

Communication was made to the Cost Centers last year explaining the need for verification and that they were to be responsible for compliance. Compliance has been sporadic thus far, and this issue will receive additional emphasis in early 1989 to assure compliance before the next audit. In conjunction with the verification process, we will be implementing new time card procedures which will require that all time cards be submitted with batch controls. This will minimize late and missing time cards and, in general, will provide for improved tracking of the time cards through the entire payroll process.

Once the new procedures are implemented, the Hospital's Auditors will verify compliance.



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4. Outpatient Billing Systems

Many ambulatory charges are not being billed due to medical current procedure terminology CPT codes being input into the billing system rather than surgical codes. In addition, the system table of ambulatory charges is not being updated. As a result, charges input for services are not being billed.

Recommendation

To facilitate charges being billed properly and timely, uniform coding procedures should be established for all departments inputting ambulatory services and the system edit table of ambulatory charges should be updated on a timely basis. Additionally, edit listings of unbilled ambulatory services should be reviewed regularly and corrected for subsequent billing.

Status of Observation

The overall observations made by Touche Ross are correct, but some clarification needs to be made as to why systems and procedures are currently the way they are.

The Table of Ambulatory Charges has not been updated since the system was implemented in September/October 1987. These updates have not occurred due to Medicare's delay in approving the 1988 CPT codes, and therefore, they will not accept them for payment. For Medicaid patients, we are using 1988 CPT codes, but are having to manually enter them onto the bill if the billing system does not accept them as a valid code.

Currently, "ambulatory charts" consist of charts for patients having ambulatory surgery on the 4th floor of Doan/Rhodes Hall, Emergency Department reports and Outpatient Surgeries performed in the Clinic. The coding of these records is performed by many individuals, including Medical Record Coding Specialists in the Medical Record Department. Since one area is not currently responsible for the coding of all of these charts, it is almost impossible to assure consistent coding from all individuals involved. On many occasions, when the Medical Record Coding Specialist has entered CPT codes into the BS81 (Outpatient Billing System), there were already codes entered onto the screen which were incorrect.

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Status of Observation (Continued)

Although Medical Records correct the ones which we are responsible for, we cannot guarantee that all individuals are verifying and correcting codes before billing in the other areas. Medical Records is currently working with the Computer Center to obtain an accurate and complete listing of all individuals having access to the BS81 system. This will help determine the need for training of these individuals and also establish a line of communication to other areas to notify them of updated regulations concerning CPT coding principles.

It should be mentioned, an overview audit was recently completed by Ernst and Whinney on the Hospitals' CPT coding for Ambulatory Surgery. The preliminary verbal discussions indicate we are doing the best and most complete coding they have seen to date. This is a developing area of expertise for the entire industry and the proposed changes above will help us continue to improve.

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5. Medical Record Sign-Out

Per review of the Peer Review Organization (PRO) reports we noted that seven medical records selected for review in the fourth quarter could not be located. Five of the medical records were subsequently found and reopened for PRO review. However, the remaining two records were not located and resulted in two PRO technical denials for which the Hospital is financially liable.

Recommendation

The Hospitals should continue to improve and enforce the documentation of the follow up process and sign-out for medical records signed out and not returned in a timely manner.

Status of Observation

The Medical Record Department is in the process of reviewing automated chart tracking systems since funding has been secured to purchase a system in fiscal year 1988-89.

A requirement for a chart tracking system is a report that would indicate all overdue records. This would permit prompt attention to all records not returned to the department.

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6. Disaster Recovery Plan

The disaster recovery plan for the Hospitals' system has not been updated or tested to reflect the change in organizational structure and the change in processing required with the network.

Recommendation

The disaster recovery plan for the Hospitals data center should be updated to reflect the new organization. A disaster recovery plan for the remaining computers on the Hospitals network should be documented. The plan should address at a minimum:

- Hardware/alternate processing site
- Data communications
- Master files/database records
- Operating system and application programs
- Transaction data
- Special documents or forms
- Duties and responsibilities

The plan should be tested at least annually for all of the computers to enable the systems to recreate the files and resume processing in the event of a critical failure or destruction of data processing capability. The testing of the plan is beneficial to ensure that the plan is current, that personnel involved know the priorities, their duties and responsibilities; to ensure that the software will operate on a backup computer system; to identify whether the backup facility has sufficient capacity to ensure the continuation of processing capabilities; and to define the controls used to establish that recovery is complete and accurate. The plan should be developed with the assumptions of short term and long term equipment failure as well as extensive destruction of the data center. A risk review should be performed as part of the annual testing to ensure that the Hospitals systems have adequate insurance coverage for the equipment, software, reconstruction of programs and data and business interruption costs.

Status of Observation

At the time the auditors visited the facility, the organizational structure of the departments in question was in a state of flux. Now that all organizational issues have been decided, a committee of senior staff members has been formed to review, revise and publish the disaster recovery plan. Assistance in the review stages of this project will be sought from the Hospitals' internal auditing department.

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Status of Observation (Continued)

In addition to the task of review and revision, the Disaster Recovery Committee has been assigned the responsibility of devising ongoing test requirements for the plan. While it is recognized that certain elements of the plan cannot be tested due to the 24 hour nature of the data center operation, the majority of the plan can and should be tested on a regular basis.

As a first step of dealing with the testing issue, the Disaster Recovery Committee organized and conducted a test of the notification procedures in the existing plan on January 27, 1989. A report of the results of the test is being drafted now. By conducting this test, it is hoped that better methods for incorporation in the final testing scenario can be identified. Once the testing plan has been finalized and regularly scheduled tests initiated, we will request our internal auditing department to monitor and control reporting on testing results.

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7. Uninterruptable Power Supply

In order for the network to remain fully functional to provide accurate billings and patient records, each computer being networked will require an Uninterruptable Power Supply (UPS) to ensure that transactions are not lost during power outages.

Recommendation

Each departmental computer system and the Hospitals data center computers, should have a UPS to ensure the system is fully operational during power outages.

Status of Observation

The acquisition of uninterruptable power supply for computer facilities is being studied, with a range of options being considered ranging from individual devices for each computer to a building-wide UPS. It should be pointed out that applications have been designed in such a way that there is no risk whatsoever of "lost" transactions even without a UPS. The maximum exposure related to this issue is disruption of service and loss of processing capability for a period of time. All transactions are recovered and processed upon resumption of service.

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\*8. Inpatient and Outpatient Billing Systems

We noted the following deficiencies in the inpatient and outpatient billing systems:

- The billing systems do not provide the capability for centralized physician billing, resulting in numerous physician invoices to individual patients.
- In certain circumstances substantial delays can occur in the issuance of billings following discharge or the performance of outpatient services.
- In the case of multiple payors, aging information for credit and collection follow up could be improved.

Recommendation

We recognize that the Hospital does not have responsibility for physician billings; however, we believe management should continue to coordinate the development of its billing system with that of the physicians to achieve maximum benefits from a centralized system.

We recommend that the Hospitals consider modification of the current billing systems to provide billing on a timely basis and to provide improved credit management information.

Status of Observation

Hospital management agrees with the above recommendations and an external consulting firm has recently completed their study on the physician centralized billing system. The same external consulting firm will begin a review of the outpatient billing cycle in January, 1989 and this study will certainly compliment the centralized physician billing system.

Until the outpatient billing system is modified, the Business Offices will continue to develop internal management reports to monitor accounts receivable and billing activities.

# THE OHIO STATE UNIVERSITY HOSPITALS

## LETTER OF RECOMMENDATIONS

JUNE 30, 1988

### 9. MSA General Ledger System

The Hospital is currently in the process of implementing a new MSA general ledger system. This system is to be fully implemented in fiscal 1989.

#### Recommendation

Due to the large number of applications used on microcomputers, consideration should be given to generating these using the MSA report writing capabilities. Proper controls and security should be maintained upon retrieval of data from the MSA system. In addition, internal audit should be involved with the installation and conversion of the new system to ensure that controls are in place to protect data integrity.

#### Status of Observation

In the fall of 1987, the Hospitals Board reviewed the proposal that gave The Ohio State University Hospitals the opportunity to contract with Management Science America (MSA) to be a beta site for their DB2 General Ledger System. This system has been installed and the Hospital is now busy working on the conversion process. At the present time, we are writing the reports that will be used for financial reporting and we are hopeful the final conversion will take place in early 1989. Security controls have been initiated with password requirements necessary for access and internal audit has been invited to review the controls.

Discussions have recently begun on sub-system interfaces and those will immediately follow conversion to reduce the number of applications on microcomputers. Hospital Management is pleased with this conversion thus far, and is confident this system will meet many of our needs for financial reporting.



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10. Financial Accounting System (FAS)

The University's Financial Accounting System is infrequently reconciled to the Hospitals' financial accounting system. This appears to be the result of the following:

- a) In some cases, the Hospitals' records are maintained on a different basis of accounting for purposes of reporting than that of the University.
- b) A lag often exists from the time that a transaction is recorded by the Hospitals until it is recorded by the University.
- c) In some instances, the difficulty is compounded by entries which are recorded by the Hospitals but fail to be transmitted to the University and FAS.

Recommendation

We recommend that the Hospitals reconcile their financial accounting system to the University's Financial Accounting System on at least a quarterly basis.

Status of Observation

The Hospitals' Fiscal Services Department is working with the University Controller's Office for ways to simplify the reconciliation process. More emphasis will be spent on accomplishing this recommendation by June, 1989. We will explore opportunities to eliminate the manual reconciliation process with a mechanized approach as the reconciliation process that currently exists is far too complicated and cumbersome. We agree additional emphasis is needed in this area.

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11. Data Processing Standards and Policies Manual

Programmers and other staff do not have access to updated versions of application development standards and systems facilities manuals. By not using current versions of standards, the possibility of inconsistent programming, excessive errors and inadequate documentation exists.

Recommendation

We understand that a project team has been organized and is presently working on the development of current standards. We recommend that the standards review and updating process be continued.

Status of Observation

The project team is currently finalizing the contents of the standards and policies manual and will be assigning sections to individuals to revise outdated material.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

12. Room and Board Processing

On certain dates, processing of midnight census data was aborted and not rerun resulting in room and board charges not being billed to several patients.

Recommendation

The Hospitals' computer center personnel should review the system message indicating the start and completion of the midnight census to ensure that processing was completed and record this in the transaction log. A daily reconciliation of room and board charges per the midnight census and room and board charges per the daily balance forward summary should also be performed.

Status of Observation

Effective September 1, 1988, the computer operators are required to review the system's messages and record the start and end times for the Midnight Census on the Computer Log Worksheet daily.

The Business Systems Group, on several occasions, has verified that this is being done since September 1. This results in a double check of the Midnight Census on-line job since the admitting terminal operator is also responsible for the completion of the job. The Hospitals' Admitting Department and Business Office are currently in the process of implementing a reconciliation procedure for the purpose of verifying room and board charges per the Midnight Census and the Daily Balance Forward Report.

THE OHIO STATE UNIVERSITY HOSPITALS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

13. Pharmacy Inventory

Several test counts of the pharmacy inventory recorded during the physical inventory observation could not be agreed to the inventory compilation or reconciled.

Recommendation

To ensure that the inventory compilation properly reflects physical inventory as input from inventory count sheets, edit listings of physical inventory counts input should be generated which can be cross referenced to sequentially numbered inventory count sheets. Additionally, inventory count sheets should be maintained for a reasonable amount of time and any modifications from the inventory count sheets to the ultimate compilation quantities should be documented and maintained on file.

Status of Observation

The Hospital agrees that a system of cross referencing inventory count sheets to the computer compilation list would be beneficial. The Department of Pharmacy will seek to change the reporting format of the inventory reports to provide a separate computer compilation for each inventory booklet, as well as an overall inventory summary report. This will allow us to track inventory discrepancies to a specific booklet with minimal computer program modifications.

The customary procedure for the Department of Pharmacy is to maintain inventory count sheets for a minimum period of one year. To improve on this, the Department's Document Retention Schedule will be amended to include retaining the inventory count sheets for a 12 month period after the external audit is completed.

# THE OHIO STATE UNIVERSITY HOSPITALS

## LETTER OF RECOMMENDATIONS

JUNE 30, 1988

### 14. Network System

From discussions with senior members of the Hospitals' systems staff, the completion and successful implementation of the network systems is dependent upon receiving adequate funding for the continuation of the project. Specifically, in order to interface the departmental computers and capture departmental charges, considerable internal and vendor programming will be required.

#### Recommendation

We recommend that a detailed analysis of the necessary funding requirements be conducted and that appropriate consideration be given to providing funding to complete the network system.

#### Status of Observation

It is clearly understood that adequate funding is necessary to support the maintenance and development of any program(s) in any organization; OSUH shares this understanding.

Information Services is presently in the final stages of a 3-year plan that reflects the needs and priorities necessary to support the maintenance of the Hospitals' current Information Services/Systems and the acquisition of new services/systems. The responsibility for system interfaces with outside vendors is clearly specified in any documentation to vendors prior to any selection process; this includes how the interface will be paid for.

The 3-year plan spells out clearly future Hospitals' system priorities, as well as where and when funding is necessary.

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

August 12, 1988

Board of Directors  
The Ohio State University  
Development Fund  
Columbus, Ohio

We have examined the financial statements of the Ohio State University Development Fund for the year ended June 30, 1988, and have issued our report thereon dated August 12, 1988. As part of our examination we made a study and evaluation of the Development Fund's system of internal accounting control to the extent we considered necessary in order to meet requirements of generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing, and extent of the auditing procedures necessary for expressing an opinion on the Development Fund's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of the Development Fund is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.

Board of Directors  
The Ohio State University  
Development Fund

August 12, 1988

Our study and evaluation of the system of internal accounting control of The Ohio State University Development Fund for the year ended June 30, 1988, which was made for the purpose set forth in the first paragraph, would not necessarily disclose all weaknesses in the system. Our study and evaluation disclosed nothing that we believe to be a material weakness.

However, we did note the item on the following page which we wish to bring to your attention.

The comment noted on the following page was presented previously in our letter dated September 4, 1987.

This report is intended solely for the use of management and should not be used for any other purpose.

*Touche Ross & Co.*

Certified Public Accountants



## THE OHIO STATE UNIVERSITY DEVELOPMENT FUND

### LETTER OF RECOMMENDATION

#### Observation

During our review of The Ohio State University Development Fund's Constitution and By-Laws, we noted that 17% of the total funds solicited by colleges in any calendar year should be retained by the Development Fund. We noted that these amounts were not retained.

#### Recommendation

Management should consider amending the Constitution and By-Laws to reflect current operations.

#### Management Response

Management once again recognizes and acknowledges the discrepancies between the Constitution and By-Laws of the Development Fund and current operations. This discrepancy is, and has been, a matter of ongoing discussion among and between Development staff, the University President and the Board of Directors of the Development Fund. It would be our intent to inform all audit agencies immediately upon these discussions coming to a resolution.

WOSU STATIONS

LETTER OF RECOMMENDATIONS

JUNE 30, 1988

October 31, 1988

Mr. Dale Ouzts  
General Manager  
WOSU Stations  
The Ohio State University  
Columbus, Ohio

We have examined the financial statements of WOSU Stations for the year ended June 30, 1988, and have issued our report thereon dated October 31, 1988. As part of our examination, we made a study and evaluation of WOSU's system of internal accounting control to the extent we considered necessary to evaluate the system as required by generally accepted auditing standards. The purpose of our study and evaluation was to determine the nature, timing, and extent of the auditing procedures necessary for expressing an opinion on WOSU's financial statements. Our study and evaluation was more limited than would be necessary to express an opinion on the system of internal accounting control taken as a whole.

The management of WOSU is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility, estimates and judgments by management are required to assess the expected benefits and related costs of control procedures. The objectives of a system are to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles.

Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projection of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.

Mr. Dale Ouzts  
WOSU Stations

October 31, 1988

Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of WOSU taken as a whole. Our study and evaluation disclosed no condition that we believed to be a material weakness.

However, we did note the item on the following page which we wish to bring to your attention.

This report is intended solely for the use of management and should not be used for any other purpose.

*Touche Ross & Co.*

Certified Public Accountants

## WOSU STATIONS

### LETTER OF RECOMMENDATIONS

#### General

##### Observation

We understand that WOSU is considering computer application needs for the IBM System 38 computer to automate many of the accounting functions.

##### Recommendation

We recommend that the following applications and accounting systems be considered to improve accounting efficiencies and to better utilize available resources:

Broadcast rights additions, write-offs and amortization system

Program schedule and logs system

Cash requirements and cash flow analyses system

Accounts receivable system

Accounts payable system

Reconciliations of internal records to FAS programs

Sales system

Equipment and property accounting system

Integrated internal general ledger and financial statements system

Because of the critical issues that must be addressed in the consideration of the systems, e.g., whether to purchase or develop each system, methods of implementation and testing and adequacy of controls, we recommend that WOSU management consider using qualified consultants to assist with the project.

##### Management Response

The WOSU Stations are in the process of determining system needs for the Business Office. To assist us with this project, we are investigating the use of consultants to address the critical issues associated with computerizing the accounting operations.

In the meantime, the WOSU Stations have been busy developing an internal timekeeping system to track employee sick leave, vacation and compensatory time balances.

# PARMS & Co., Inc.

CERTIFIED PUBLIC ACCOUNTANTS 400 EAST TOWN STREET · SUITE 200 · COLUMBUS, OHIO 43215 (614) 224-3078

October 20, 1988

The Board of Trustees  
The Ohio State University  
The Ohio State University Housing Commission

We have completed our examination of the financial statements of The Ohio State University Dormitory Revenue Bond Fund and The Ohio State University Housing Commission for the year ending June 30, 1988. As part of our examination, we have performed a study and evaluation of the system of internal accounting control maintained by Residence and Dining Halls. Our study and evaluation of internal accounting control was not a detailed review of the organization's internal accounting control, but was a limited review performed to determine the nature, timing and extent of auditing procedures necessary for expressing an opinion on the financial statements in accordance with generally accepted auditing standards.

A system of internal accounting control is defined by the American Institute of Certified Public Accountants as the plan in an organization and related procedures and records in effect that are concerned with the safeguarding of assets and the reliability of financial records. Management is responsible for maintaining this system of internal accounting control. We recognize, however, that in fulfilling this responsibility, practical considerations are largely the controlling factor in instituting changes in management policies and accounting procedures to improve internal control.

The objective of internal accounting control is to provide management with reasonable, but not absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition, and that transactions are executed in accordance with management's authorization and recorded properly to permit the preparation of financial statements in accordance with generally accepted accounting principles. Because of inherent limitations in any system of internal accounting control, errors or irregularities may nevertheless occur and not be detected. Also, projections of any evaluation of the system to future periods is subject to the risk that procedures may become inadequate because of changes in conditions or that the degree of compliance with the procedures may deteriorate.

Our study and evaluation made for the limited purpose described in the first paragraph would not necessarily disclose all material weaknesses in the system. Accordingly, we do not express an opinion on the system of internal accounting control of the Dormitory Revenue Bond Fund or the Housing Commission taken as a whole. However, our study and evaluation disclosed conditions that we believe are material weaknesses in internal accounting control for which corrective action should be taken. Our observations and recommendations concerning such conditions are set forth in the sections below. These conditions were considered in the nature, timing, and extent of our audit test applied in our examination of the June 30, 1988 financial statements.

The preceeding comments are made solely in the interest of improving the system of internal accounting controls of The Ohio State University Residence and Dining Halls. Our comment is in no way intended to reflect on the capabilities, honesty or integrity of any of the University's employees.

This report is intended solely for the management of The Ohio State University and the management of the University's Residence and Dining Halls and should not be used for any other purpose.

*Parmo & Co., Inc.*

Sincerely,

### SEPARATION OF DUTIES

During our review, we noted that the accounting clerks in the graduate housing area had incompatible duties. The clerk was responsible for collecting cash, preparing deposits and recording receipts.

We recommend the graduate housing area separate these duties among several people if economically feasible.

### Posting Errors And Unrecorded Adjustments

During the year, there were posting errors that were made to the financial statements that were not corrected on a timely basis. One error occurred when collections on delinquent student revenue accounts were incorrectly posted to the bad debt expense account. Another error occurred when a newly created accounts payable account did not properly roll up to the financial statement, causing both the accounts payable and cash accounts to be in error.

In addition to the above noted errors, there were several routine accounting adjustments that should have been recorded during the year, but were not.

It is our belief the reason these errors were not corrected and routine adjustments were not recorded was because the Senior Accountant who is responsible for these tasks retired during the year and the position went unfilled.

Because of the structure of the Business Office, the Senior Accountant plays a pivotal role in the accounting process for Residence and Dining Halls. Historically, the senior accounting position was responsible for among other things, reviewing and reconciling general ledger accounts balances and recording required adjusting entries. Having this position vacant has caused certain reviewing and reconciling tasks to go undone. Consequently, an important internal control process is not functioning properly.

Accordingly, it is our recommendation that the review and reconciliation responsibilities of the senior accounting position be delegated to current member(s) of the fiscal staff.

### CLOSING COMMENTS

We would like to emphasize that our comments are made for the purpose of outlining areas where internal control could be improved. We recognize that practical considerations are a controlling factor in instituting changes in management policies and accounting procedures to improve internal control. Accordingly, management must weigh the probable additional cost of making any changes against the risks and costs which the present system may involve.



THE OHIO STATE UNIVERSITY  
OHIO REVISED CODE COMPLIANCE LETTER  
YEAR ENDED JUNE 30, 1988

November 23, 1988

Honorable Thomas E. Ferguson  
Auditor of State of Ohio and  
The Board of Trustees  
The Ohio State University  
Columbus, Ohio 43210

We have examined the financial statements of The Ohio State University, for the year ended June 30, 1988, and have issued our report thereon dated November 23, 1988. Our examination was made in accordance with generally accepted auditing standards and the standards for financial and compliance audits contained in the Standards for Audit of Governmental Organizations, Programs, Activities, and Functions, issued by the U.S. General Accounting Office, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

The management of The Ohio State University is responsible for the University's compliance with laws and regulations. In connection with our examination referred to above, we selected and tested transactions and records to determine the University's compliance with laws and regulations, noncompliance with which could have a material effect on the financial statements of the University. We also selected and tested records and transactions to determine the University's compliance with laws and regulations, noncompliance with which, while not material to the combined financial statements, the Auditor of State of Ohio has determined to be significant as a matter of public policy, public stewardship, or public accountability.

The results of our tests indicate that for the items tested, The Ohio State University, complied with those provisions of laws and regulations, noncompliance with which would have a material effect on the financial statements. The results of our tests also indicate that for the items tested, the University has complied with those provisions of laws and regulations that the Auditor of State of Ohio has determined to be significant as a matter of public policy, public stewardship, or public accountability, except as noted in the following pages.

Honorable Thomas E. Ferguson  
Auditor of State of Ohio and  
The Board of Trustees  
The Ohio State University

November 23, 1988

Nothing came to our attention that caused us to believe that for the items not tested The Ohio State University was not in compliance with laws or regulations noncompliance with which could have a material effect on the University's financial statements or noncompliance with which indicates significant violations of public policy, public stewardship, or public accountability.

*Touché Ron vlb.*

Certified Public Accountants

\*1. Citation

Section 125.081, Ohio Revised Code, requires the University to set aside contract business for bidding by minority firms. According to Section 125.081, this requirement exists to insure that 15% of the aggregate value of all contracts awarded by the University are awarded to minority businesses. While the University has a program in place for this purpose, only 5.62% of aggregate value of contracts was awarded to minority businesses in fiscal year 1988.

Recommendation

The University should continue to aggressively solicit minority businesses in order to meet the requirement imposed by Section 125.081.

University Response

Respondent: Penny F. O'Neil, Assistant VP, Business Services

We agree. To that end, we have hired a consultant to review our minority set-aside program, and offer recommendations for improvement in our efforts to meet the 15% set-aside goal.

In addition, we are sending copies of all our bids to the State EEO office for dissemination to certified minority vendors throughout Ohio. Through these and other efforts, we hope to make a positive move towards the 15% set-aside goal.

\* - Indicates repeat of prior year citation.

## 2. Citation

Section 135.18, Ohio Revised Code, provides that securities which are issued by other than states of the United States are not eligible securities to be pledged as collateral for public monies. The Code also states that securities in default are not eligible to be pledged as collateral for public monies. During our examination, we noted two instances where non-eligible securities were included in the bank's pool of securities held for collateralization.

### Recommendation

The University should arrange for all securities pledged as collateral for University deposits to be eligible per Section 135.18.

### University Response

Respondent: Alvin C. Rodack, Associate Treasurer

The Office of the Treasurer quarterly reviews the statistics on the pooled collateral for public monies provided by the depository banks. We will attempt to notify them of any discrepancies with the Ohio Revised Code and request that they correct the situation.

\*3. Citation

Section 3335.05, Ohio Revised Code, provides that the Treasurer shall give bond to the State for a sum which is not less than the probable amount that will be under his control in any one year. The Treasurer's fidelity bond was set at \$3,000,000 in 1981 and has not been increased since that time. This amount is not sufficient to provide the coverage required by the Code.

Recommendation

The Treasurer's bond coverage should be reevaluated based upon the risk of loss defined by this section.

University Response

Respondent: James Roesch, Coordinator, Personnel Services

Bond coverage for the Treasurer (\$3 million) has been approved by The Ohio State University Board of Trustees and is well within thresholds used by other major state universities. If \$3 million is not sufficient, what amount is? This market is "thin" and the premiums for the higher limits will be very expensive. Should the desired limit be \$10, \$50 or \$100 million, I am not sure that much insurance is available, at any premium. Obviously, we have a trade-off. What does Ohio State feel "comfortable with", how much is available, and at what premium? The answer is and remains \$3 million.

\* - Indicates repeat of prior year citation.

#### \*4. Citation

Section 3345.29, Ohio Revised Code, provides that the University shall establish an office of contract compliance to monitor all contracts to insure compliance with state and federal law regarding affirmative action. This office shall keep such current records on contractors which have been reviewed and submit an annual report to the General Assembly as part of the University's Capital Plan. The University has established an office of contract compliance, but as of June 30, 1988, the office had not begun functioning in the capacity prescribed by the Code.

#### Recommendation

The Office of Contract Compliance should monitor all contracts and submit an annual report to the General Assembly as required by Section 3345.29, Ohio Revised Code.

#### University Response

Respondent: Richard W. Eschliman, Assistant VP,  
Architect's Office

Our formal plan was submitted to Business and Administration during February, 1989.

We have been monitoring contracts and keeping records and our Compliance Officer coordinates with State offices including EEO. We should be fully operational by June 1, 1989.

\* - Indicates repeat of prior year citation.

## 5. Citation

Section 124.13, Ohio Revised Code, specifies the vacation leave and holiday pay for all state full-time employees. During our payroll testing, 31 of 45 selections were eligible for vacation accrual. For two of the 31 vacation accruals tested, there was insufficient documentation to support the testing of the accrual balance.

## Recommendation

The University should consider implementation of an automated timekeeping system, which would automatically calculate sick and vacation balances, on a University-wide basis.

## University Response

Respondent: Madison H. Scott, VP, Personnel Services

The Office of Personnel Services has and continues to consider implementation of a comprehensive automated timekeeping system for all University employees. This consideration will become a higher priority when sufficient resources are available to develop such a system. In the interim, University Systems, with the approval of the Offices of Personnel Services and Internal Audit, has developed a vacation and sick leave tracking system which automatically computes accrual and vacation/sick leave balances. In conjunction with introducing this new system to the various departments, the Office of Personnel Services will continue to stress the importance of maintaining viable vacation and sick leave records.



\*6. Citation

Section 9.38, Ohio Revised Code, requires public monies received by a department to be deposited with the Treasurer within twenty-four hours. University policy requires that amounts over \$200 be deposited within twenty-four hours but amounts less than \$200 be deposited on at least a weekly basis. During our detailed testing of departmental deposits, we noted that in 8 out of 30 selections, departments did not make their deposit to the Bursar's office within the time frames as specified by both the ORC and University policy.

Recommendation

Public monies received by departments should be deposited with the Office of Fees and Deposits in accordance with University guidelines.

University Response

Respondent: (1) Alvin C. Rodack, Associate Treasurer

All "public monies" are in fact deposited via a wire transfer from the State to our bank account. All tuition and fees are processed by the Office of Fees and Deposits with daily and sometimes twice daily deposits.

Other public monies received are deposited per our University deposit procedures distributed to these units, i.e., when an accumulation of \$200 is reached, but at a minimum weekly.

Respondent: (2) David E. Schuller, Chairperson, Otolaryngology

The delay was due to the person in charge of depositing the checks. It is the policy of the department to follow Section 9.38 of the ORC which requires public monies to be deposited within 24 hours, and this practice will be adhered to in the future.

Respondent: (3) Roy L. Leary, Admin. Manager, Dentistry

We agree that the dental clinic deposits were not made on a timely schedule. The reason for the delay has basically been the result of personnel. We have been operating a four-person office with two and three persons in anticipation of decentralizing the collection of fees with the installation of a new computerized clinical program.

In the meantime, we will deposit all currency the day following receipt. We will need to keep checks for a longer period until balancing is completed. At such time the decentralization takes place, checks will also be deposited the day following receipt.

\* - Indicates repeat of prior year citation.

\*6. Citation - (Continued)

Respondent: (4) Mervin E. Muller, Chairperson, Computer & Information Science

We will make every effort to deposit checks in a timely manner. However, the statement "Computer and Information Science did not make their deposit to the Bursar's Office within the time frames as specified by both the ORC and University policy" is correct but is inconsistent with our understanding of written procedures. Furthermore, I understand that during the audit a question was raised about the dates on the checks (all were for November) and we would like to point out that in many cases much time elapses between the writing of the check and the receipt of the check for depositing.

We appreciate the importance of following procedures which are realistic, practical and efficient. The 24-hour limit may be unrealistic to expect if the check is received on a Friday afternoon or before a holiday.

Respondent: (5) Stephen J. Summerhill, Asst. Vice Provost, International Studies

We were unaware of the State and University rules cited. We have instituted the recommended change, i.e. daily deposits of public monies in amounts over \$200 and at least weekly deposits of amounts less than that.

Respondent: (6) David T. Mucci, Associate Director, Student Unions

The factors that impacted on that situation were: (a) a small office staff; (b) a restriction in the number of individuals handling cash; and (c) illness affecting the two individuals making the deposit. Despite these factors, it is clear deposits in excess of \$200 must be made within 24 hours of receipt. First and foremost, the deposits need to be a priority in the office. We propose the following solutions: (1) Training of the Drake Union Manager to make such deposits in the absence of his staff; and (2) Provision of Ohio Union accounting staff to handle such deposits in the absence of trained Drake Union staff.

Respondent: (7) John M. Ellinger, Asst. VP, Agricultural Admin.

We can only assume that this involves daily deposits that are picked up at the Zone pickup twice a week, Tuesday and Friday. With the Meat Lab in operation, receipts are more than \$200 but deposits are prepared daily and sent to zone pickup in order to correct this problem.

Respondent: (8) C.W. Brunson, Director, Traffic and Parking

Our deposits are no longer made to Fees and Deposits; instead, they are made directly to the bank via Metropolitan Armored Car, usually within a period of less than 24 hours.

\* - Indicates repeat of prior year citation.

\*6. Citation - (Continued)

Respondent: (9) A.J.R. VanBuren, Asst. VP, Business Management

We agree. The Department of Reprographics' policy regarding deposits is in accordance with University guidelines. Appropriate counseling or disciplinary action is taken if an employee is found to deviate from this policy.

\* - Indicates repeat of prior year citation.

\*7. Citation

Section 3345.17, Ohio Revised Code, provides that all property purchased by the University for its use or benefit is exempt from state sales tax. Per review of internal audit reports on accounting controls over petty cash, we noted that state sales tax was paid in several instances where petty cash funds were used.

Recommendation

The University should enforce the procedures it has already established to fully utilize the state sales tax exemption.

University Response

Respondent: Alvin C. Rodack, Associate Treasurer

The Office of the Treasurer has repeatedly emphasized to departments, and it is clearly published in their procedures, that they should not pay state sales tax when making petty cash purchases. We will continue to reemphasize to departments having petty cash funds that the University is exempt from state sales tax.

\* - Indicates repeat of prior year citation.

\*8. Citation

Sections 3335.13 and 3345.16, Ohio Revised Code, provide that title for all lands for the use of The Ohio State University shall be made in fee simple to the State. In addition, the sections provide that properties purchased by the Board of Trustees as investments and held as part of the University's endowment portfolio shall be held in trust by the Board. We noted that the Board of Trustees currently holds title to certain properties which are not in the University's endowment portfolio and therefore should have been titled to the State. In addition, we noted one property in the University's endowment portfolio which was improperly titled to the State instead of the Board of Trustees.

Recommendation

The University should consult with the Office of the Attorney General to resolve this issue.

University Response

Respondent: Thomas Andres, Manager, Property Management

Parcels of land titled to the Board of Trustees and not included in the University Endowment portfolio are now part of the "Quasi endowment portfolio" (QEP). QEP includes real estate gifted to the University with instructions to sell and proceeds used to support current programs. It also includes all other property titled to the Board and not part of the Endowment portfolio, regardless of funding source.

The VA Clinic building is held in the Endowment portfolio. The underlying real estate is titled to the State of Ohio and is not part of the Endowment.

Lane Manor Apartments is titled to the Board of Trustees but is part of Housing Commission. It, therefore, should not be part of the Endowment.

We will continue to seek advice from appropriate University officials and the office of Attorney General when necessary.

\* - Indicates repeat of prior year citation.

\*9. Citation

Section 149.34, Ohio Revised Code, provides that the University shall submit record retention schedules to the State Records Administrator. The University has approximately 760 reporting units, each of which is required to prepare and submit retention schedules. As of June 30, 1988, approximately 280 reporting units had not prepared retention schedules.

Recommendation

The University should complete its record retention schedules.

University Response

Respondent: Raimund E. Goerler, University Archivist

The citation is substantially correct. As in previous years, it must be stated that records scheduling is a gradual and continuous process, in which the University continues to make progress toward the goal of comprehensive scheduling for the entire institution.

Twice each year the Archives has notified all departments of the University of the policies of Ohio State and the laws of the State concerning inactive records. The Archives depends greatly on the cooperation of the departments who will have responsibility for implementing the schedules in their own offices to initiate the contact.

A major problem continues to be the absence of a general schedule for the disposition of personnel records common to many offices.

\* - Indicates repeat of prior year citation.

10. Citation

Section 3345.031, Ohio Revised Code, requires that the Board of Trustees of each state institution of higher education file an annual budget plan and quarterly budget progress reports with the Ohio Board of Regents and the Legislative Budget Office of the Legislative Budget Commission. Per the Ohio Board of Regents, the University did not submit all required quarterly budget progress reports.

Recommendation

The University should submit all quarterly budget progress reports with the Ohio Board of Regents and the Legislative Budget Office as required by the Code.

University Response

Respondent: Neal Milnor, Asst. VP, University Budget Planning

The failure to submit all required quarterly reports was due to a one-time problem created by the temporary loss of certain computer files at University Systems. We will continue to submit quarterly reports in the future.

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APPENDIX XXXI

SUMMARY OF REPORT ON AFFIRMATIVE ACTION

Presented to the Academic Affairs Committee  
(See page 831)

The Ohio State University  
Board of Trustees Meeting  
April 7, 1989

Summary of Report on Affirmative Action

Summary of Barbara Newman's comments on the Action Plan for the Recruitment and Retention of Black Students

Ohio and the rest of the nation face critical and urgent problems regarding the participation of minorities, especially Blacks and Hispanics, in higher education. The Ohio State University has taken a bold, comprehensive approach to addressing this problem through its Action Plan for the Recruitment and Retention of Black Students. It is important to keep in mind that the steps we take in this arena effect not only our own University community, but they serve as a model for colleges and universities throughout Ohio and across the nation.

The first year of the Action Plan has resulted in significant achievements in student recruitment and retention, as well as faculty recruitment. What is even more hopeful is that so many individuals and groups on campus have woven the goals of this plan into their own agendas. The climate of the campus is evolving toward one that more fully recognizes racial and ethnic pluralism as a key ingredient of excellence.

Summary of James Bishop's comments on the Young Scholars Program

The Committee received a detailed report from Dr. James J. Bishop, Special Assistant to the Provost, about the first year of the Young Scholars Program, the University's key effort for increasing the numbers of low-income Black, Hispanic, Appalachian and other under-represented students. In 1988, 201 sixth graders from eight Ohio public school districts became Scholars. Of these, 195 of these came to the program's Summer Institute and spent two exciting, challenging and memorable weeks studying and living as college students. To continue its progress, teachers and officials of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Lorain, Toledo and Youngstown are selecting an additional 400 sixth graders. With increased staff, the program will be able to recruit and train the needed mentors for these Scholars and to conduct in future years the full range of supports and activities promised by the University to these Scholars. Also, the Development Office and the Office

of Academic Affairs have mounted an intensive fundraising effort to fund the Young Scholars Program. The general public's response to the objectives and activities of the Young Scholars Program has been uniformly positive. Increasing numbers of colleges and universities recognize the need for increasing the pool of college-bound minority students and are seeking information about Ohio State's efforts.

Dr. Bishop invited members of the Trustees to become involved in this satisfying and vital component of the University's Action Plan.

#### Summary of Sue Blanshan's comments on the University Senate Committee on Women and Minorities 1989 Report

The Committee on Women and Minorities has played an increasingly important role in our affirmative action program at Ohio State. In this role the committee has:

- (1) made useful policy and action recommendations to Academic Affairs on faculty recruitment and retention,
- (2) consistently ties the principles of affirmative action and academic excellence together, (3) awarded approximately one and a quarter million dollars in affirmative action grants, and (4) awarded thirty-one Distinguished Affirmative Action Awards.

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APPENDIX XXXII

A COPY OF ONE OF THE SIGNED LETTERS FROM STUDENTS  
REGARDING CONCERN FOR THE PROPOSED TUITION INCREASE

Presented to the Student Affairs Committee  
(See page 859)

Board of Trustees  
205 Bricker Hall  
190 North Oval Mall  
Columbus, Ohio 43201-1162

Dear Trustee,

As a student at The Ohio State University, I am very concerned about the proposed tuition increase. If fees increase twenty to forty percent, or if they only increase ten percent, and continue to do so over the next five or six years, Ohio State will soon become too expensive for many students to attend. Some students will be able to afford a tuition increase, but it will intensify the pressures that they and their families already struggle with in order to earn a college education.

I am aware that the proposed tuition increase is due in part to state budget cuts. However I have also noted that tuition at Ohio State increases even when the the State of Ohio has increased the money allocated to higher education. It is obvious to me that Ohio Legislators need to reconsider their budget, but it is also obvious that Ohio State needs to take steps as well.

I am asking that the administration of Ohio State make a priority of keeping tuition down. I am asking you to do everything possible to ensure that Ohio State remains affordable.

Sincerely,

A handwritten signature in black ink, appearing to be "Fyl" followed by a stylized flourish.

APPENDIX XXXIII

THE OHIO STATE UNIVERSITY COLLEGE OF AGRICULTURE  
INTERNATIONAL PROGRAMS UPDATE

Presented to the Agricultural Affairs Committee  
(See page 861)

The Ohio State University  
College of Agriculture  
International Programs Update

Historical

The College of Agriculture provides leadership to Ohio State University's participation in externally funded international programs. Our annual expenditure of funds for this program is currently over \$3,000,000/year and growing.

The College initiated this activity at the request of the U.S. Department of State during the 1950's and 1960's with programs in India and Brazil. In the 1970's we participated in programs in Uganda and Somalia. In the 1980's we established programs in Uganda, Burma and the Dominican Republic. We also initiated a major program in rural financial markets in developing countries in the 1960's, and have since worked in over 15 countries in Asia, Africa, and Latin America.

These programs involved training of foreign scientists and academics and long-term residence of our faculty in these countries. In addition, we have trained hundreds of foreign scientists in agriculture, most of whom were not affiliated with these programs. We have also provided opportunities for our students to intern with agribusinesses in Northern Europe and Australia, and have placed foreign youngsters on farms and agribusinesses throughout the United States.

Funding for the programs and graduate student training was provided by the U.S. Agency for International Development, our major bilateral development assistance program, and from other multilateral international donors.

Rationale

Trade deficits and the ability of U.S. industries to compete successfully with foreign producers are daily news items. We are part of a global economy and must educate our new generations to participate in it. This implies equipping young people with foreign language skills and making them familiar with other cultures. Today, provision of this education is an integral part of the land grant university mission. Programs such as those described above provide opportunities to expose our faculty and graduate students to international agriculture and to other cultures. Ties established with foreign educational institutions through these programs are used to establish opportunities for our students to study abroad. Foreign students enrich and broaden the learning environment of students on the OSU campus.

Priorities

We seek to broaden the learning experience of undergraduates in the College of Agriculture with study abroad opportunities



which enhance foreign language skills and appreciation of other cultures. This activity is coordinated with parallel efforts by the OSU Central Administration and other professional colleges. We invite them to use our contacts to develop parallel activities in these countries.

We encourage our faculty to undertake significant overseas, cross-cultural experiences as integral to their professional growth. These experiences involve applied research, technical assistance and/or teaching in cross-cultural settings. All activities are designed directly to integrate them into international networks of scientists, and indirectly to expose them to cutting edge science and technology. This new knowledge is used to enhance their instructional, research and outreach programs in Ohio.

#### Current Programs

- (a) **Uganda** - We have recently signed a \$10,100,000 5 year extension to a major Agency for International Development funded project designed to rehabilitate the national agricultural research system in Uganda. Major implementing agencies on the Ugandan side are Makerere University and the Ministry of Agriculture.
- (b) **Dominican Republic** - We recently provided leadership in the design of a 7 year \$11,800,000 project to be funded by the Agency for International Development. This project was awarded to the Midwest Universities Consortium for International Activities (MUCIA). It will strengthen the academic and research programs of the Superior Institute of Agriculture. We anticipate keeping the lead on the implementation phase of this project.
- (c) **Burma** - We have worked in Burma since 1981, primarily to strengthen their national agricultural research system through technical assistance and training of graduate students. This project activity was also funded by the U.S. Agency for International Development. Our current project (\$3,800,000) may be prematurely terminated because of a U.S. State Department decision to withdraw U.S. assistance to protest recent human rights violations and the persistence of a military government.
- (d) **Swaziland** - We are in the process of signing a \$100,000 linkage grant with the U.S. Agency for International Development to strengthen ties between the Faculty of Agriculture of the University of Swaziland and the OSU College of Agriculture. This grant will finance exchange of faculty and graduate students.

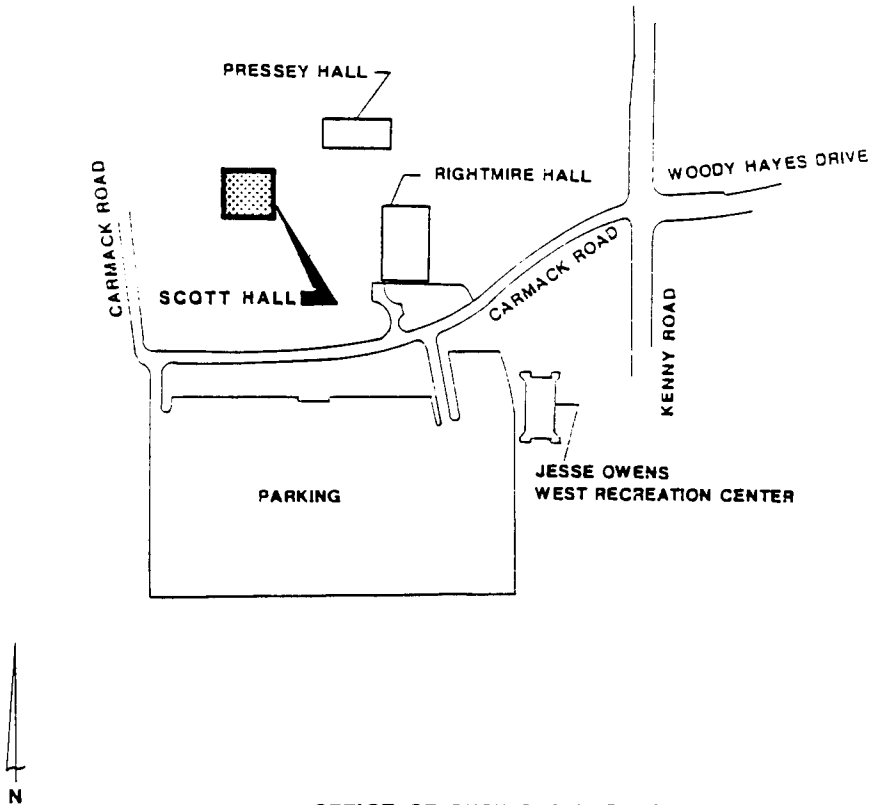
- (e) Program Support Grant - We receive an annual grant from AID of from \$125,000-150,000 to strengthen the ability of our faculty provide assistance to the above projects. This grant is part of a Joint Memorandum of Understanding between OSU and Fort Valley State College (a minority land grant institution) in Georgia, and is used to promote joint activities with this institution. Specific activities supported with this grant include faculty travel abroad and faculty and graduate student overseas research.
- (f) International Agricultural Intern Program - Under this program we annually place from 120 to 150 European young men and women on farms and in agribusinesses in Ohio and in other States. Many of them also take courses at OSU. We also place OSU students in similar work situations in Northern European countries and Australia. This program was initiated in 1981 and has no projected termination date.
- (g) Peace Corps - The OSU Peace Corps recruiter is located in our Office. The Peace Corps contracts with us for this service to the campus and for the midwestern region of Ohio.

APPENDIX XXXIV

SCOTT HALL REMODELING AND  
OHIO STADIUM - REHABILITATION OF THE EXTERIOR CONCRETE

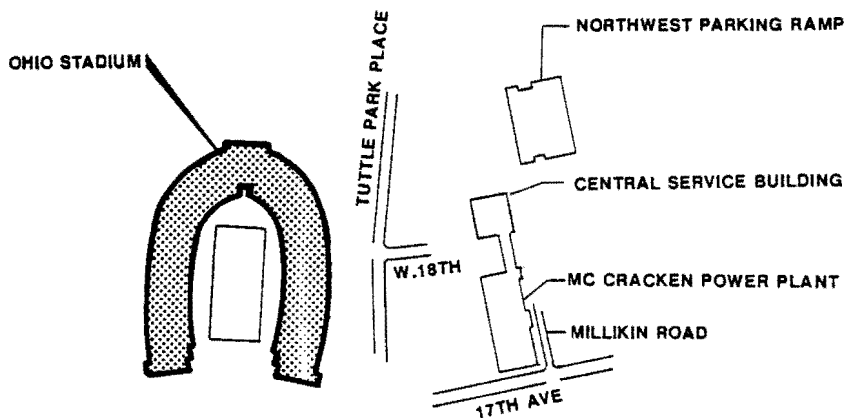
Adopted by the Board of Trustees April 7, 1989  
(See page 902)

# SCOTT HALL REMODELING - PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

# OHIO STADIUM - REHABILITATION OF THE EXTERIOR CONCRETE



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

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APPENDIX XXXV

GOLF COURSE IRRIGATION SYSTEM  
BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS  
UNIVERSITY AIRPORT RENOVATIONS 1988/1989  
PRESSEY HALL REMODELING - PHASE I  
NORTHWEST UTILITIES PHASE I - STORM AND SANITARY SEWERS  
OARDC SUPPORT FACILITIES - BARN REPLACEMENT  
NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION I

Adopted by the Board of Trustees April 7, 1989  
(See page 910)

April 7, 1989

REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

GOLF COURSE IRRIGATION SYSTEM

Description: This project provides for the installation of a computer lined weather station to monitor and control the duration and watering sequences at the Golf Course, modernization of existing pump controls, repairs to existing cash iron mains and replacement of all galvanized pipe with PVC lines.

	Low Bid	Estimate of Cost
General Contract Base Bid	\$825,000	\$828,994
Total General Contract	\$825,000	\$828,994
 TOTAL ALL CONTRACTS	 \$825,000	 \$828,994
TOTAL PROJECT COST	\$887,750	

Funding: University Athletic Department Funds

Plans and Specifications - 5/6/88  
Report of Award of Contracts - 4/7/89



April 7, 1989

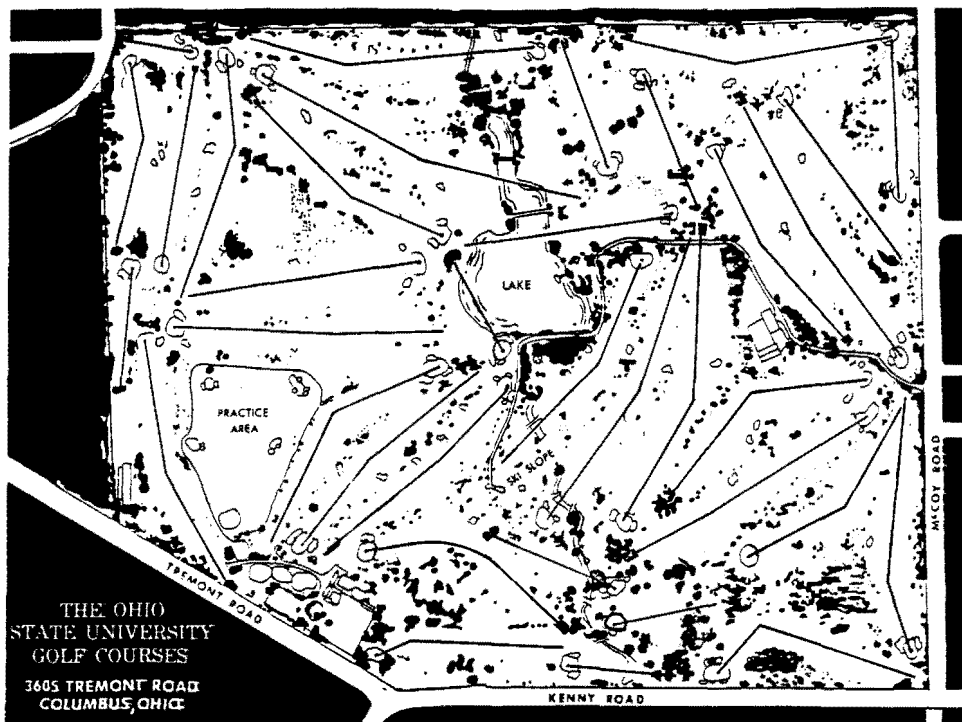
TABULATION OF BIDS  
GOLF COURSE IRRIGATION SYSTEM

Bids Received - The Ohio State University  
Date Received - December 21, 1988  
Opened By - Tamara Bell  
Tabulated By - Michael Whitehad

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$828,994.00	-\$120,000.00
* Hilltop Glen Golf	\$825,000.00	+\$0.00
K & P Supply	889,500.00	-25,000.00
Ohio Irrigation	891,000.00	-30,000.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	<u>ALT G-3</u>
Estimate of Cost	+\$53,000.00	+\$6,000.00
* Hilltop Glen Golf	+50,000.00	+10,000.00
K & P Supply	+23,100.00	+10,000.00
Ohio Irrigation	+42,100.00	+13,000.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-4</u>	<u>ALT G-5</u>
Estimate of Cost	+\$6,000.00	+\$500.00
* Hilltop Glen Golf	+10,000.00	+90,000.00
K & P Supply	+1,000.00	+62,700.00
Ohio Irrigation	+16,200.00	+105,000.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-6</u>	
Estimate of Cost	+\$96,000.00	
* Hilltop Glen Golf	+10,000.00	
K & P Supply	+18,000.00	
Ohio Irrigation	+30,000.00	

\* Contract awarded to this bidder.

# GOLF COURSE - IRRIGATION SYSTEM



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

April 7, 1989

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)**

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS**

Description: This project renovates 3,900 square feet of the lower level of Rightmire Hall to provide for 14 growth chambers (five existing and nine new) and a plant tissue culture controlled environmental room. Major upgrading of the building's electrical system is required due to the heavy electrical demands of this equipment. A separate cooling system is required to maintain the close tolerance environments required within the growth chambers and the plant tissue culture rooms. An emergency generator is to be installed to maintain the controlled environment of these chambers in case of a power outage.

The project also includes removal of existing asbestos pipe insulation. Construction is scheduled to begin January, 1989 and be completed June, 1989.

	Low Bid	Estimate of Cost
<b>General Contract</b>		
Base Bid	\$65,000	\$90,000
<b>Total General Contract</b>	<b>\$65,000</b>	<b>\$90,000</b>
<b>Plumbing Contract</b>		
Base Bid	\$36,220	\$45,000
Substitute - Air turret	+ 75	
Substitute - Gas turret	+ 75	
Substitute - D.I. ledge faucets	+ 720	
Substitute - Hub drain line	+ 500	
<b>Total Plumbing Contract</b>	<b>\$37,590</b>	<b>\$45,000</b>
<b>HVAC Contract</b>		
Base Bid	\$68,780	\$75,000
Alt. H-1 (Extend 3/4" HPS line)	+ 3,900	\$2,500
<b>Total HVAC Contract</b>	<b>\$72,680</b>	<b>\$77,500</b>

April 7, 1989

REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (Cont)

	Low Bid	Estimate of Cost
Electric Contract		
Base Bid	\$143,400	\$153,000
Alt. E-2 (Growth chamber alarm system)	+ 2,100	+ 3,500
Alt. E-3 (Fire alarm system)	+ 1,900	+ 1,600
Alt. E-4 (Autoclave wiring and connections)	+ 380	+ 750
Alt. E-5 (Receptacles)	+ 840	+ 1,200
Total Electric Contract	\$148,620	\$160,050
 TOTAL ALL CONTRACTS	 \$323,890	 \$370,050
 TOTAL PROJECT COST	 \$660,980	

Funding: University Funds

Plans and Specifications - 3/4/88  
Report of Award of Contracts - 4/7/89

April 7, 1989

## TABULATION OF BIDS

## BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS

Bids Received - The Ohio State University  
 Date Received - August 16, 1988 and November 17, 1988  
 Opened By - Tamara Bell  
 Tabulated By - Charles Hamilton

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$90,000.00

* Gutknecht Construction	\$65,000.00
Ed Ross Construction	72,870.00
J & M Bennett Co.	75,400.00
C. W. Construction	87,900.00
Waller & Lund	92,680.00
Mid State Builders	93,500.00

<u>PLUMBING CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$45,000.00

* C. W. Construction	\$36,220.00
Farber Corp.	44,500.00
Diewald & Pope	46,083.00
Marco Plumbing	51,370.00

<u>HVAC CONTRACT</u>	<u>BASE BID</u>	<u>ALT H-1</u>
Estimate of Cost	\$75,000.00	+ \$2,500.00

* Project Systems Mechanical	\$68,780.00	\$3,900.00
C. R. Legner	84,250.00	2,800.00
Farber Corp.	99,800.00	4,100.00

<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-2</u>
Estimate of Cost	\$153,000.00	+ \$3,500.00

* Jess Howard Electric	\$143,400.00	+ \$2,100.00
Demos Electric	152,000.00	+ 2,239.00
Buckeye Electric	166,000.00	+ 2,197.00
Electric Power	203,900.00	+ 3,330.00

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-3</u>	<u>ALT E-4</u>
Estimate of Cost	+ \$1,600.00	+ \$750.00

* Jess Howard Electric	+ \$1,900.00	+ \$380.00
Demos Electric	+ 1,900.00	+ 405.00
Buckeye Electric	+ 1,786.00	+ 334.00
Electric Power	+ 2,730.00	+ 610.00

April 7, 1989

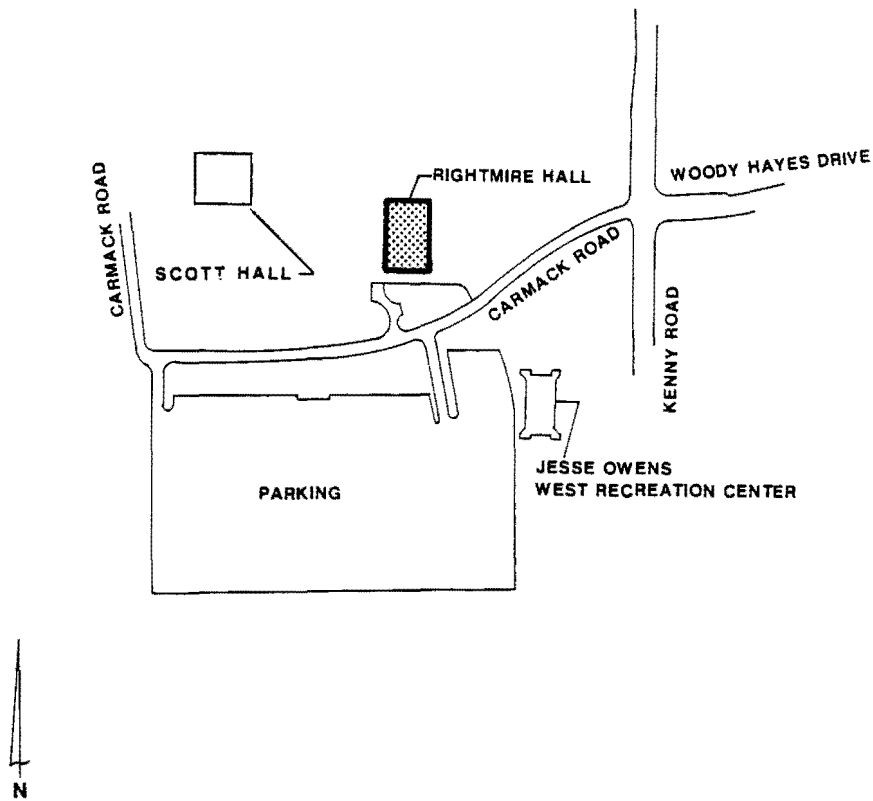
TABULATION OF BIDS (Cont)

BIOTECHNOLOGY CENTER RIGHTMIRE HALL - GROWTH CHAMBERS (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-5</u>	<u>ALT E-6</u>
Estimate of Cost	+ \$1,200.00	+ \$10,000.00
* Jess Howard Electric	+ \$840.00	+ \$7,934.00
Demos Electric	+ 1,980.00	+ 9,000.00
Buckeye Electric	+ 1,067.00	+ 11,500.00
Electric Power	+ 2,930.00	+ 9,100.00

\* Contracts awarded to these bidders including Alternates H-1, E-2, E-3, E-4, and E-5.

**BIOTECHNOLOGY CENTER RIGHTMIRE HALL  
GROWTH CHAMBERS**



**OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989**

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)**

**UNIVERSITY AIRPORT RENOVATIONS 1988/1989**

**Description:** This project provides for the upgrading of taxiway guidance and hold signs, repairing Runway 9L-27-R and overlaying same with asphalt, and constructing asphalt apron between hangars 4 and 9 for aircraft parking and taxiing.

	Low Bid	Estimate of Cost
<b>General Contract</b>		
Base Bid	\$226,675.98	\$289,313.00
Alt. G-1 (Additional 1/2" bituminous surface)	+23,088.80	+32,984.00
Alt. G-3 (Berming)	+4,443.75	+7,821.00
Alt. G-4 (Seeding)	+1,929.60	+1,920.00
Alt. G-5 (Painting)	+3,257.10	+10,340.00
<b>Total General Contract</b>	<b>\$259,395.23</b>	<b>\$342,378.00</b>
<b>Electric Contract</b>		
Base Bid	\$37,750.00	\$35,322.00
Alt. E-1 (Guidance signs Runway 9R)	+3,080.00	+3,276.00
Alt. E-2 (Guidance signs Runway 9-L)	+1,800.00	+1,688.00
Alt. E-3 (Helicopter hold signs)	+7,120.00	+6,944.00
<b>Total Electric Contract</b>	<b>\$49,750.00</b>	<b>\$47,230.00</b>
<b>TOTAL ALL CONTRACTS</b>	<b>\$304,145.23</b>	<b>\$389,608.00</b>
<b>TOTAL PROJECT COST</b>	<b>\$391,111.00</b>	

**Funding:** FAA Grant and University Funds

Plans and Specifications - 7/8/88

Report of Award of Contracts - 4/7/89



April 7, 1989

## TABULATION OF BIDS

## UNIVERSITY AIRPORT RENOVATIONS 1988/1989

Bids Received - The Ohio State University  
 Date Received - December 1, 1988  
 Opened By - Tamara Bell  
 Tabulated By - Lynn Brooks

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$289,313.00	+ \$32,984.00
* Columbus Asphalt Paving	\$226,675.98	+ \$23,088.80
Decker Constr.	236,900.50	+ 26,174.40
Central Ohio Paving	241,032.60	+ 24,152.80
Miller Paving	241,435.73	+ 21,599.20
Strawser Paving	242,881.40	+ 27,132.00
Shelly & Sands	248,618.73	+ 28,153.44
Heffner Constr.	258,552.56	+ 29,260.00
S. E. Johnson	291,240.00	+ 36,974.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	<u>ALT G-3</u>
Estimate of Cost	+ \$17,841.00	+ \$7,821.00
* Columbus Asphalt Paving	+ \$13,729.66	+ \$4,443.75
Decker Constr.	+ 13,950.30	+ 4,266.00
Central Ohio Paving	+ 13,919.20	+ 7,821.00
Miller Paving	+ 14,420.50	+ 4,443.70
Strawser Paving	+ 14,007.60	+ 4,621.50
Shelly & Sands	+ 14,931.54	+ 4,514.85
Heffner Constr.	+ 15,003.50	+ 3,555.00
S. E. Johnson	+ 17,004.65	+ 3,555.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-4</u>	<u>ALT G-5</u>
Estimate of Cost	+ \$1,920.00	+ \$10,340.00
* Columbus Asphalt Paving	+ \$1,929.60	+ 3,257.10
Decker Constr.	+ 2,048.00	+ 2,585.00
Central Ohio Paving	+ 1,920.00	+ 7,755.00
Miller Paving	+ 1,920.00	+ 2,585.00
Strawser Paving	+ 1,984.00	+ 2,378.20
Shelly & Sands	+ 2,460.16	+ 2,274.80
Heffner Constr.	+ 1,120.00	+ 2,326.50
S. E. Johnson	+ 1,244.16	+ 2,326.50
<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-1</u>
Estimate of Cost	\$35,322.00	+ \$3,276.00
* Scioto Electric	\$37,750.00	+ \$3,080.00
Jess Howard Electric	46,799.84	+ 4,097.20

April 7, 1989

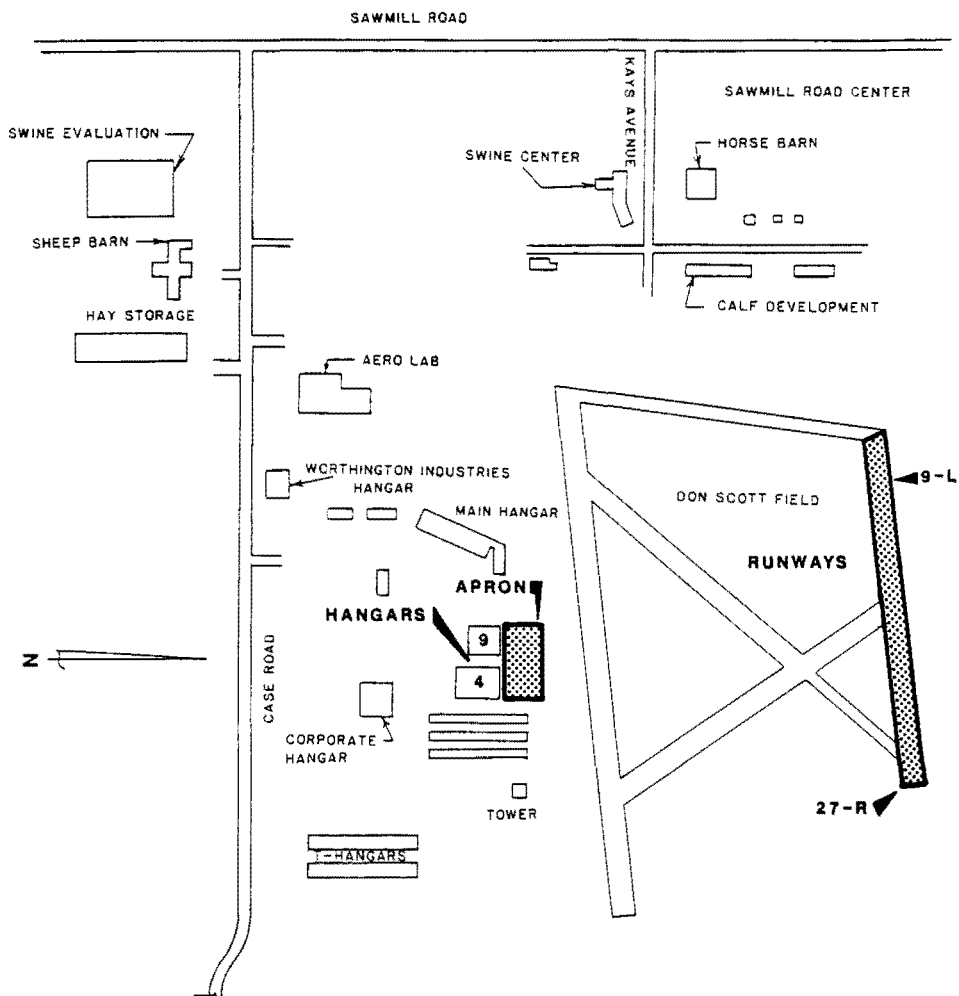
TABULATION OF BIDS (Cont)

UNIVERSITY AIRPORT RENOVATIONS 1988/1989 (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-2</u>	<u>ALT E-3</u>
Estimate of Cost	+\$1,688.00	+\$6,944.00
* Scioto Electric	+\$1,800.00	+\$7,120.00
Jess Howard Electric	+2,048.00	+7,688.72

\* Contracts awarded to these bidders including Alternates G-1, G-3, G-4, G-5, E-1, E-2 and E-3.

# UNIVERSITY AIRPORT RENOVATIONS 1988 - 1989



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

April 7, 1989

REPORT OF AWARD OF CONTRACTS (Cont)

PRESSEY HALL REMODELING - PHASE I

Description: This project provides for the remodeling of selected spaces in Pressey Hall to provide administrative support space, faculty and staff offices, teaching and research laboratories and a Speech, Language and Hearing Clinic for the Department of Communications, College of Social and Behavioral Sciences.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$548,780.00	\$518,300.00
Alt. G-1 (Acoustical wall panels)	+ 18,900.00	+ 22,320.00
Total General Contract	\$567,680.00	\$540,620.00
Plumbing Contract		
Base Bid	\$34,875.00	\$23,100.00
Total Plumbing Contract	\$34,875.00	\$23,100.00
HVAC Contract		
Base Bid	\$204,198.00	\$185,640.00
Total HVAC Contract	\$204,198.00	\$185,640.00
Electric Contract		
Base Bid	\$194,500.00	\$177,360.00
Alt. E-1 (New Fluorescent fixtures)	+ 4,220.00	+ 11,020.00
Total Electric Contract	\$198,720.00	\$188,380.00
TOTAL ALL CONTRACTS	\$1,005,473.00	\$937,740.00
TOTAL PROJECT COST	\$1,230,212.00	

Funding: House Bill 870, House Bill 810 and University Funds

Plans and Specifications - 2/7/86  
Report of Award of Contracts - 4/7/89

April 7, 1989

TABULATION OF BIDS

PRESSEY HALL REMODELING PHASE I

Bids Received - Division of Public Works  
Date Received - October 6, 1988  
Opened By - Janet Sutton  
Tabulated By - R. Nash

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>	<u>ALT G-1</u>
Estimate of Cost	\$518,300.00	+ \$22,320.00
* CWC/ABC, A Joint		
Venture	\$548,780.00	+ \$18,900.00
Concept Construction	618,000.00	+ 16,400.00
Williamson Builders	667,612.00	+ 18,086.00
<u>GENERAL CONTRACT (Cont)</u>	<u>ALT G-2</u>	
Estimate of Cost	+ \$5,110.00	
* CWC/ABC, A Joint		
Venture	+ \$4,600.00	
Concept Construction	+ 5,300.00	
Williamson Builders	+ 4,840.00	
<u>PLUMBING CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$23,100.00	
* Edmonds Mechanical	\$34,875.00	
S.A. Comunale/D.E.		
Mech. (AJV)	47,554.00	
Mandeville/Marco (AJV)	49,023.00	
<u>HVAC CONTRACT</u>	<u>BASE BID</u>	
Estimate of Cost	\$185,640.00	
* Edmonds Mechanical	\$204,198.00	
Mandeville/Marco (AJV)	233,390.00	
S.A. Comunale/D.E.		
Mech (AJV)	268,000.00	
Wayne/J.A. Guy (AJV)	277,300.00	
<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>	<u>ALT E-1</u>
Estimate of Cost	\$177,360.00	+ \$11,020.00
* Smith & Bruce	\$194,500.00	+ \$4,220.00
Advantage Electric	224,910.00	+ 11,500.00
CWC/ABC (AJV)	240,000.00	+ 15,790.00
Avant/Romanoff (AJV)	286,100.00	+ 16,525.00

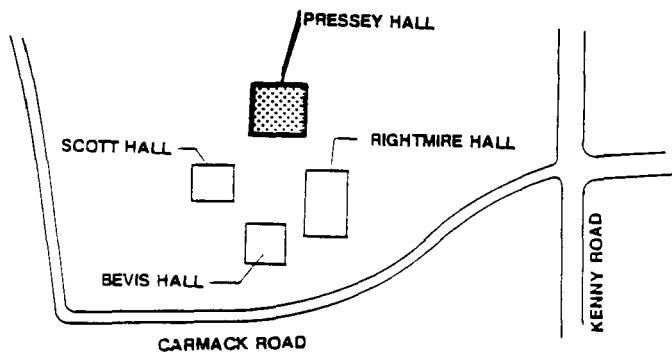
April 7, 1989

TABULATION OF BIDS (Cont)  
PRESSEY HALL REMODELING PHASE I (Cont)

<u>ELECTRIC CONTRACT (Cont)</u>	<u>ALT E-2</u>
Estimate of Cost	+ \$17,980.00
* Smith & Bruce	+\$8,200.00
Advantage Electric	+23,450.00
CWC/ABC (AJV)	+29,500.00
Avant/Romanoff (AJV)	+32,690.00

\* Contracts awarded to these bidders including Alternates G-1 and E-1.

# PRESSEY HALL REMODELING - PHASE I



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

April 7, 1989

REPORT OF AWARD OF CONTRACTS (Cont)

NORTHWEST UTILITIES PHASE I  
STORM AND SANITARY SEWERS

Description: This project provides for the installation of a new storm and sanitary sewer line to replace the existing antiquated septic system serving the Athletic Maintenance Building, Poultry Science complex, Dakan Hall, and Brooding and Breeding Houses.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$712,730.00	\$989,704.00
Total General Contract	\$712,730.00	\$989,704.00
TOTAL ALL CONTRACTS	\$712,730.00	\$989,704.00
TOTAL PROJECT COST	\$829,425.00	

Funding: University Bonds and Senate Bill 386 Utilities and Renovation

Plans and Specifications -  
Report of Award of Contracts - 4/7/89



April 7, 1989

TABULATION OF BIDS

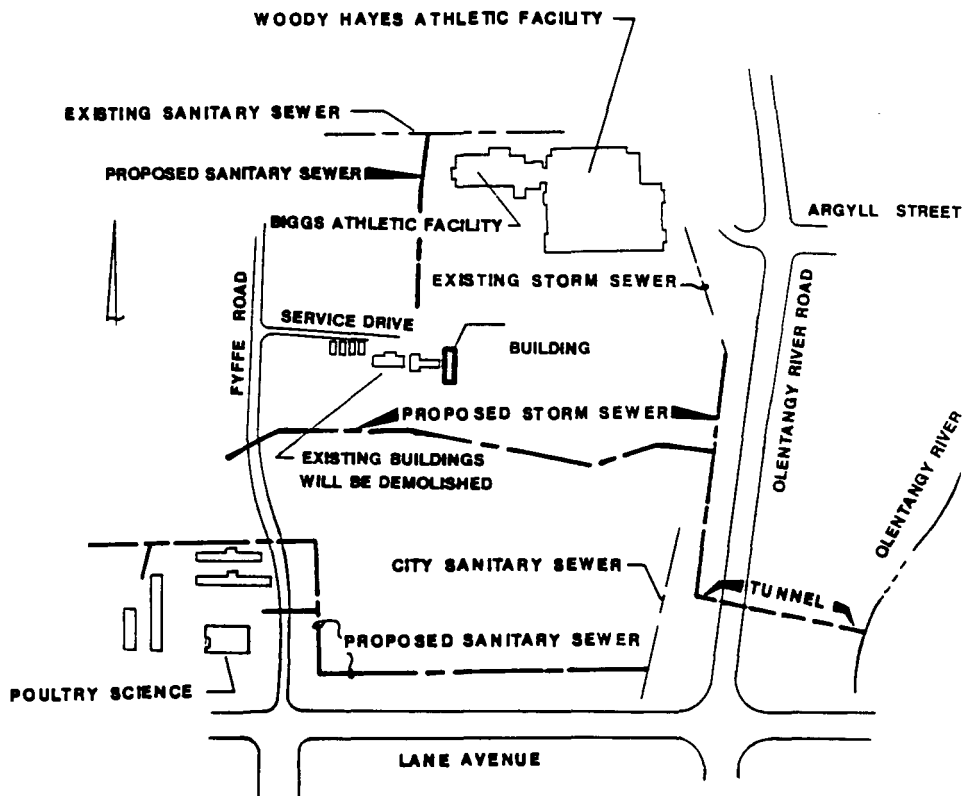
NORTHWEST UTILITIES PHASE I  
STORM AND SANITARY SEWERS

Bids Received: - The Ohio State University  
Date Received: - January 31, 1989  
Opened By: - Tamara Bell  
Tabulated By: - Peter Tettoni

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$989,704.00
* The Righter Company	\$712,730.00
Gemini Constr.	768,723.00
Danbert Inc.	798,473.00
Savko & Sons	806,296.00
Concrete Constr.	808,486.00
George Igel Co.	819,000.00
Complete Constr.	857,176.00
Kenny Wilburn Constr.	862,317.08
Kokosing Constr.	868,703.00
Jack Conie & Sons	951,894.60
Walter Jones	953,953.00

\* Contract awarded to this bidder.

# NORTHWEST UTILITIES PHASE I STORM AND SANITARY SEWERS



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989

April 7, 1989

REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

OARDC SUPPORT FACILITIES - BARN REPLACEMENT  
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Description: This project involves the replacement of a two-story bank barn, attached sheds, and contents lost in a barn fire at OARDC property in Wooster, Ohio, in November, 1985.

	Low Bid	Estimate of Cost
General Contract Base Bid	\$117,500.00	\$127,550.00
Total General Contract	\$117,500.00	\$127,550.00
Electric Contract Base Bid	\$14,546.00	\$19,020.00
Total Electric Contract	\$14,546.00	\$19,020.00
TOTAL ALL CONTRACTS	\$132,046.00	\$146,570.00
TOTAL PROJECT COST	\$158,250.00	

Funding: University Funds

Plans and Specifications - 7/11/86  
Report of Award of Contracts - 4/7/89

April 7, 1989

TABULATION OF BIDS

OARDC SUPPORT FACILITIES - BARN REPLACEMENT  
THE OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER (Cont)

Bids Received - The Ohio State University  
Date Received - March 2, 1989  
Opened By: - Tamara Bell  
Tabulated By: - John Frazier

<u>GENERAL CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$127,500.00

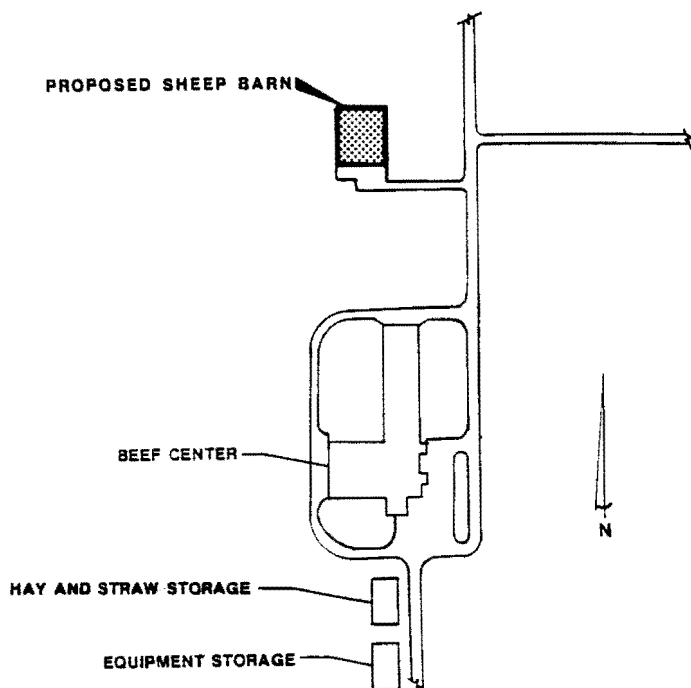
* Finnagan Construction	\$117,500.00
Dawkins General Contr.	123,535.00
All Ohio Buildings	124,474.00
Stanley Miller	140,238.00

<u>ELECTRIC CONTRACT</u>	<u>BASE BID</u>
Estimate of Cost	\$19,020.00

* Wooster Electric	\$14,546.00
Buchman's Electric	15,300.00
Abbott Electric	15,375.00
Charnan Electric	15,820.00
Madison Electric	18,600.00
Power National Corp.	19,443.00
Stanley Miller	25,000.00

\* Contracts awarded to these bidders.

# **OARDC SUPPORT FACILITIES BARN REPLACEMENT**



**OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989**

April 7, 1989

REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS

NORTHWEST UTILITIES - WATER LINE - PHASE II, SECTION 1

Description: New water lines will be installed to obtain increased pressure and fire protection to the Waterman Farm Complex and Bee Laboratory.

	Low Bid	Estimate of Cost
General Contract		
Base Bid	\$62,179.29	\$94,090.50
Total General Contract	\$62,179.29	\$94,090.50
 TOTAL ALL CONTRACTS	 \$62,179.29	 \$94,090.50
TOTAL PROJECT COST	\$69,900.00	
Funding: University Bonds		

April 7, 1989

TABULATION OF BIDS

NORTHWEST UTILITES - WATER LINE - PHASE II, SECTION 1

Bids Received	- The Ohio State University
Date Opened	- January 19, 1989
Opened By	- Tamara Bell
Tabulated By	- Michael Whitehead

GENERAL CONTRACT

BASE BID

Estimate of Cost

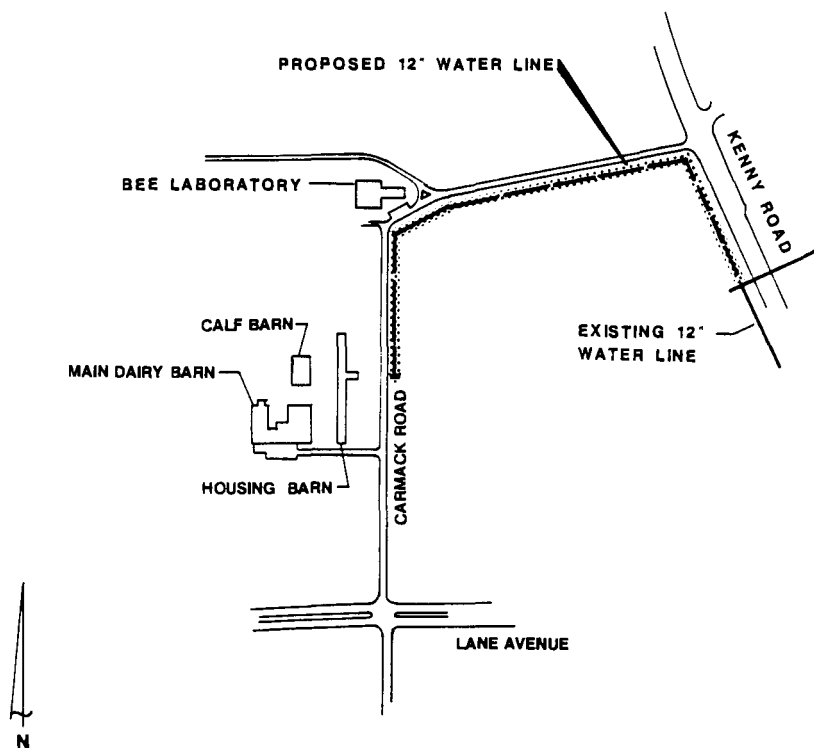
\$94,090.50

* N. M. Savko	\$62,179.29
Jack Conie & Sons	65,359.85
S. E. Johnson Cos.	68,280.35
Danbert Contractors	69,788.75
Gemini Construction	69,938.80
George Igel Co.	70,730.66
Walter Jones Constr.	72,421.75
The Righter Co.	72,567.75
S J & R Quality	75,526.00
Concrete Constr.	78,579.50
Tom Mayle & Sons	80,942.50
Woodward Excavation	84,359.89
Complete General Constr.	88,211.00
Smith & Bruce	91,229.39
Gaddis & Sons	107,651.00

\* Contract awarded to this bidder.

# NORTHWEST UTILITIES

## WATER LINE - PHASE II, SECTION 1



OFFICE OF BUSINESS AND ADMINISTRATION  
APRIL 7, 1989



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THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTIETH MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, May 4, 1989

The Board of Trustees met at its regular monthly meeting on Thursday, May 4, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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May 4, 1989 meeting, Board of Trustees

The Chairman, Mr. Immke, called the meeting of the Board of Trustees to order on May 4, 1989, at 1:45 p.m. He requested the Secretary to call the roll.

Present: Leonard J. Immke, Chairman, John W. Berry, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, Leslie H. Wexner, Sophia L. Paige, and Laurel A. Davis.

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**ELECTION OF OFFICERS  
BOARD OF TRUSTEES**

Resolution No. 89-94

Mr. Scott read the Nominating Committee's report in which the following slate of officers were recommended:

WHEREAS pursuant to paragraph (B) of rule 3335-1-02 of the Administrative Code, the officers of the Board are to be elected at the May meeting to take office immediately following adjournment of the meeting (May 4, 1989) and shall hold their office through the May 1990 meeting:

NOW THEREFORE

BE IT RESOLVED, That the following slate of officers for 1989-90 be elected:

John W. Berry, Chairman

Shirley D. Bowser, Vice Chairman

Madison H. Scott, Secretary

James L. Nichols, Treasurer

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Mr. Immke

I would like to now call on Dr. Jennings for the President's Report.

President Jennings:

Thank you, Mr. Chairman. First, I have the great privilege to introduce a colleague of ours. As you know, last month you approved the appointment of Betty Jo Hudson to become the Ombudsman of the University. That is an extraordinary important position for both the faculty, staff, and students. Betty Jo comes to us from University College. She has been here, I think, now about 19 years and before that was a long time in Indiana. But I would just like to introduce her to you. Stand up, Betty Jo. Thank you.

As you are aware our Provost, Myles Brand, has recently been named President of the University of Oregon. I want to take this opportunity to extend our congratulations to Professor Brand on this outstanding opportunity. I know that all of

May 4, 1989 meeting, Board of Trustees

President Jennings: (contd)

you join me in expressing our deep appreciation to Myles for a job well done. In only three years, he has made an enormous impact on our University, and he surely will be missed. Today, I want to offer our thanks to Professor Brand for his good work and extend to him and Peggy our best wishes for continued success.

Myles joins a very distinguished group of Ohio State family members who have become university presidents. I believe that it is no accident that the higher education community looks to Ohio State for leadership. This University's strong and effective governance structure and its traditions of excellence are well-known throughout the country.

Our success derives from the only significant asset we actually possess: our quality faculty, students, and staff. The considerable efforts of many individuals continue to enrich the educational environment through innovation while, at the same time, holding to the essential characteristics which define our role as a university in this society.

Many new initiatives are underway at this institution, and some might speculate on the impact of the departure of the Vice President of Academic Affairs and Provost and the Vice President for Research and Graduate Studies, which we announced a month ago. Their departures represent substantial losses, but we should remind ourselves that the guiding principle of operation in this University is faculty governance, and that we in the administration are here to serve the faculty that they may better serve our students. This operating philosophy includes decentralization, individual accountability, small central staff, and budget discipline, as well as open and public discussions of our problems and opportunities through a well-defined governance structure.

This philosophy is nowhere more evident than in our efforts at curriculum review. With the 1987 report from the Special Committee for Undergraduate Curriculum Review (the Reagan Committee) as its foundation, this institution has moved forward with curriculum revision. The Colleges of the Arts and Sciences has developed a model curriculum, and courses are now being submitted for inclusion. The arts and sciences colleges' major programs are also being reviewed. Other colleges, such as agriculture and nursing, are working on their curriculum. These continuing activities will be reviewed by the Council on Academic Affairs within a very few months. We are close to having a new general education curriculum at this University.

These advances represent literally thousands of hours of work by individuals and committees at many levels over a number of years. I encourage the continued commitment of all faculty members to think broadly about the goals of quality education which we all deeply share.

While such activities require effective, shared leadership, their success derives from those who engage in the work of their development -- sometimes behind-the-scenes, requiring lengthy discussions and research, and calling for hours and hours of committee meetings. I am very proud of all that has been done and of the proven effectiveness of the structures and processes in place to facilitate such activities. I am confident that with the continued support of the faculty, the curriculum initiatives will be carried to completion and implementation will be appropriately funded.

May 4, 1989 meeting, Board of Trustees

President Jennings: (contd)

Furthermore, I applaud the efforts of so many members of the Ohio State community in advancing the University's commitment to affirmative action beyond articulation to advocacy and to action. We have come a long way from merely acknowledging the problems of access and success among the faculty, staff, and students. Senate committee reports and specific proposals have come forward including, notably and recently, the various action plans and the Report of the Senate Committee on Women and Minorities.

A number of innovative and energetic efforts are underway. We can point with pride to the Young Scholars Program and to the individual successes of departments and colleges in expanding Ohio State's diversity. Our efforts are recognized by many as a model for the nation. But much remains to be done. The University must -- and will -- continue to work on this very important activity.

One of the most clear indicators of the quality reputation of this University among our academic peers is the number of truly outstanding faculty who have recently joined our distinguished Ohio State family. The presence of distinguished scholars and the existing climate of intellectual energy have attracted first-rate faculty. With the continued accomplishments of our faculty and the growing reputation of our undergraduate student body, this momentum can continue. I often have said that Ohio State is the University for the 21st century. Indeed it is, and we must -- and will -- safeguard our quality by aggressively and creatively supporting excellence in our faculty to the fullest extent.

To this end, department chairs, administrative officers, and deans will hear -- perhaps with mixed feelings -- the promise that they will continue to be asked to carefully evaluate their activities and related fiscal needs, particularly during this time of financial uncertainty. Scarce resources always need to be distributed efficiently and effectively no matter the situation.

Beyond anticipating our fiscal needs, we also must continue to examine the future programmatic needs of the University and of each department through program review which will, of course, also continue. Many areas throughout our campuses at all levels have been doing this in some form for decades. Recent examples of linking fiscal and programmatic review may be seen in the colleges of home economics, medicine, and mathematics and physical sciences. They have undertaken careful review of their commitment of fiscal and human resources and should be commended for their good work. All of us will continue the work necessary to provide the best possible educational environment so that, even with limited resources, we can keep our momentum and continue to advance the quality of The Ohio State University.

The decentralization of the review functions and of budget discipline reinforces the principles of faculty governance. From the debate promoted by such activities comes the core strength of this institution. The importance of the faculty is underscored in the significant role that our first faculty played in laying the foundation for this University.

Indeed, at the celebration of the semi-centennial of The Ohio State University in 1920, Professor Thomas Mendenhall reminisced about our first seven faculty members, of which he was one. Mendenhall, a man of vision, said that the University's foundation "should be broad and liberal, and that it should be laid with a view to its sometime bearing the super-structure of a great State University."

May 4, 1989 meeting, Board of Trustees

President Jennings: (contd)

Mendenhall reported that it was these seven faculty members "upon whom rested the responsibility for the success or failure of the New Educational experiment. It was not long before [we] were joined by others, equally capable, and equally enthusiastic in their efforts to win success...."

They are, indeed, joined by hundreds of women and men on today's faculty who are committed to excellence. The accomplishments of The Ohio State University are significant, and we can all take great pride in the work of many people to achieve these ends. The University has faculty members, students, and staff members who are strongly dedicated to Ohio State. With their loyalty and with a well-established, well-respected governance structure in place, the work ahead promises to be rewarding and exciting. I certainly look forward to working many years with the new vice presidents as together we pursue the highest standards of academic achievement for the people of The Ohio State University.

Thank you, Mr. Chairman. And Myles, thank you again for all you have done for me and Ohio State. We will miss you substantially.

Dr. Brand:

It has been a great experience for me and I think I will always "bleed scarlet and gray."

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#### RESEARCH FOUNDATION REPORT

Mr. Barone:

I would like to report on the Research Foundation meeting that we had yesterday. The Research Foundation grants and contracts for the month of March 1989 are shown in the Board agenda book. There are 125 awards listed which provide a gross income of \$7.9 million.

Funding for the first nine months of this fiscal year is 20 per cent ahead of the same period last year. Funding increases are noted for the Federal and Industrial sectors while funding is about even with last year for the State of Ohio and the Other Non-Federal sector.

Some highlights of awards are:

\$188,000 from the National Aeronautics and Space Administration for research in aviation and space automation systems.

\$103,000 from the NSF for a program of in-service training for high school mathematics teachers.

\$75,000 from the NSF to the Department of Physics for research on the electronic properties of conducting solids.

\$50,000 from the NSF to the Ohio Supercomputer Center for support of a regional network among Ohio universities.

May 4, 1989 meeting, Board of Trustees

## **RESEARCH FOUNDATION REPORT (contd)**

Mr. Barone: (contd)

That concludes my report. I would now like to turn the remainder of this report over to Jack M. Hollander, Vice President for Research and Graduate Studies. I would like to add my thanks, it has been an honor to work with you, Jack. I was told yesterday, at our meeting, that this was to be Jack's last meeting at the Research Foundation, and this will probably be the last meeting with the Board of Trustees. So, Jack, I turn this over to you with our thanks. It's been an honor and a pleasure working with you. And I think this report, along with the other reports that have been made, shows how successful you have been. Jack --

Dr. Hollander:

Thank you very much, John. It has been a pleasure for me to work with you and all of the members of the Ohio State family. I think we are doing very well in research as those figures indicated.

Just a brief addition to Mr. Barone's report. The last item he mentioned -- the \$50,000 from the National Science Foundation is a bit of a sleeper. I want to underscore the importance of the network that our group has built around the State of Ohio which links together all the universities and colleges in the State. The network for communication is usable for not only for computing but also for library other educational communication purposes. It certainly puts us in the leading group in the nation. This particular award will help to tie that network in with the national and international network which will be extremely significant. So thanks again, John.

Mr. Barone:

One further thing. The Research Foundation Board wishes to thank the Board of Trustees for the new building -- that is, the change of building. It is a much better building and we are all grateful and they wanted me to express my gratitude and thanks to the Board of Trustees and you, Mr. President, for making this possible.

President Jennings:

That is the move of OSURF to the old National Center for Research in Vocational Education on Kenny Road.

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## **HOSPITALS BOARD COMMITTEE REPORT**

Mr. Teaford:

The Executive Committee of the Hospitals Board met last Thursday, April 27. The Medical Director, Dr. Mekhjian, reported on medical staff activities, including a new policy to ensure more efficient handling of laboratory specimens and a study to assess the frequency and appropriateness of "stat" orders for patient tests. "Stat" is a medical term for "right now."

Dr. Kathryn Clausen who is the outgoing Chief of Staff, reported on the election of the new officers. Dr. William Smead, who is the Chief of Staff-elect, reviewed existing facilities for Surgical Intensive Care patients. He pointed out to us that the



May 4, 1989 meeting, Board of Trustees

**HOSPITALS BOARD COMMITTEE REPORT (contd)**

Mr. Teaford: (contd)

project which we have planned to improve those facilities estimated at \$10 million, now probably needs \$14 million. That has been sent to a committee to discuss and study.

It was a very gratifying and exhilarating committee meeting because we had so many responses to the questions that had been raised in the previous meeting. And I am able to report that the temperature in the operating room is now satisfactory to both anesthesiology and surgery.

Mr. Immke:

Joel, what is the temperature in the rooms?

Mr. Teaford:

I don't know what it is, but -- actually it is on a sliding scale.

Mrs. Bowser:

It depends on how many people are in the room, how long they are there, and how many patients they have.

Mr. Teaford:

The temperature goes down as the surgeon heats up. That is literally true.

Mrs. Bowser:

They lose what -- eight pounds?

Mr. Teaford:

No. Two pounds in a typical surgery. Mr. Buchanan updated us on the Medical Center development activities. The Medical Center development is really, in many ways, just getting underway now. In fact, there will be a reception downtown within this month to really get us rolling on development activities for the Medical Center.

Mr. Purcell then presented the March financial and statistical reports and we had a considerable discussion about billing and the collection of accounts. He indicated to us that they are to undertake studies of the causes of the slow collection of accounts, particularly directed to what extent they are internal and to what extent they are external. And once we have those kinds of reports we believe that we can start to reduce the period it takes to collect, which as I have told you approaches 100 days.

Mr. Cottillion gave a progress report on the implementation of the Medical Center's strategic plan. And, I am happy to report that the strategic plan is, indeed, being implemented. I think it is going to prove to be a very useful tool and a good discipline for everyone over there.

May 4, 1989 meeting, Board of Trustees

### **HOSPITALS BOARD COMMITTEE REPORT (contd)**

Mr. Teaford: (contd)

Mr. Lazarus at our previous meeting had requested that we take a look at the proliferation of committees. Dr. Tzagournis gave us a superb report on the medical staff committees within the Hospitals and their responsibilities and their reporting relationships. He told us that perhaps the principle problem is that there are lots of ad-hoc committees that never seem to die. He has asked the Executive Director, the Medical Director, and the Chief of Staff to review all of the committees, define their roles, and streamline the system. A written charge with time frames will be given to each committee at the beginning of each fiscal year. And they will make quarterly reports to the Board with the hope of the Board being involved in determining whether we really need quite so many committees.

We were, of course, pleased to welcome Reed Fraley, as the permanent Executive Director of the Hospitals. He assured us that in no time at all he will have everything working with perfection. And we look forward to that.

I might point out that the billing project continues. The many representatives of the practice plans will be meeting with the auditors to hear their final report. And as an encouragement to get something moving, I, Dr. Kramer, head of the Hospitals Board, and Dr. Jennings will all be present at that meeting next week. So, I hope to report to you next month that we really made some progress in that area.

That completes my report, Mr. Chairman.

Ms. Casto:

I said last night, Joel, Dr. Tzagournis asked Mr. Redman not to say anything about centralized billing. But I said that this is now my fourth chairman that I have been through and we still don't have centralized billing.

Mr. Immke:

I will have to pass that on to Chairman Berry.

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### **UNIVERSITY FOUNDATION BOARD REPORT**

Mr. Teaford:

The most recent meeting of the Foundation Board was held on Friday, April 14. At that time the Campaign totals were announced and they may be repeated again here later, but we are as of the end of March at \$335 million.

Mr. Leet, the Chair of the National Campaign Steering Committee and member of the Foundation Board, reported to the Board several significant accomplishments at this point in the Campaign. There are more than 30 endowed faculty chairs and professorships which have been funded; more than 315 new endowed funds have been created supporting scholarships, fellowships, research, facilities, lectureships, and other special programs. Both the Columbus regional and the corporate campaigns have reached and exceeded their goals. And, to date, the Campus

May 4, 1989 meeting, Board of Trustees

## UNIVERSITY FOUNDATION BOARD REPORT (contd)

Mr. Teaford: (contd)

Campaign has raised \$13.6 million in gifts and pledges which exceeds their original goal of \$12 million.

The Chairman noted that special recognition should be given to former Campaign Chair Fred Ruffner and to the Campaign staff for their valuable work. And, I think we should once again recall the importance of the vision of the President in being daring enough to think that we could raise that kind of money. I think that has been significant to this program.

The members discussed short- and long-range plans for the Office of Development. Between now and the Campaign end the emphasis will be on concluding the Campaign at the highest possible level, achieving a maximum level of support for those priorities which remain unfunded, and for pushing the individual programs that are not yet fully implemented like the Medical Center Development Program. And, of course, preparing for keeping fund raising as a principle goal at this University on a permanent basis. Such preparation will include emphasis on a more systematic approach to major gift fund raising and cultivation; maintaining and strengthening regional offices, including Columbus, as a key to establishing effective cultivation and solicitation programs outside of Central Ohio; and expanding the annual program in terms of funds raised and the per cent of participation among alumni. Mr. Chairman, that completes my report.

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## INVESTMENTS COMMITTEE REPORT

Mr. Berry:

The Investments Committee met this morning and we heard first a report on Endowment investments which showed a market value of \$270.8 million as of April 21. This is the highest dollar total the Endowment has ever achieved and it is noted that in the last eight years it has increased by almost \$200 million.

As Mr. Teaford mentioned, I may repeat a little bit of the Campaign results, because Mr. Tobin did talk to the Committee this morning. Although I think that anything as good as the results of the Campaign bears repeating. The gifts and pledges to reach \$335.2 million by the end of March, and it represents 96 per cent of the \$350 million Campaign goal. We anticipate to reach this first goal anyway probably in the next several months. The gifts for this fiscal year represent over \$33 million and is a 9 per cent increase over the same 9 months of the previous fiscal year.

Mr. Nichols reviewed for the Committee members the procedures being followed and progress to-date in implementing the Board's action to select appropriate index funds for the University Endowment.

The annual income distribution policy for endowed accounts was also reviewed. This policy, which distributes 5.5 per cent of the average market value over the most recent three years, appears to be a prudent distribution policy for Ohio State's Endowment at this time. And, unless there are other members that want to add something, that concludes my report, Mr. Chairman.

May 4, 1989 meeting, Board of Trustees

#### **INVESTMENTS COMMITTEE REPORT (contd)**

(See Appendix XXXVI for complete text of The Ohio State University Campaign, page 1145.)

(See Appendix XXXVII for complete text of The Ohio State University Endowment Summary, April 21, 1989, page 1149.)

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#### **ACADEMIC AFFAIRS COMMITTEE REPORT**

Ms. Casto:

This morning we received a report on our Graduate Study Programs. I found that there were some real interesting statistics: 1) we have the largest enrollment of graduate students in the nation here on this campus; 2) we maintain 127 disciplines here on this campus; 3) 2,400 graduate faculty and 127 graduate study committees, and committees collectively determine the conduct of graduate education at the university; and 4) we have appointed a 15-member commission on graduate education to make independent assessments and recommendations to graduate education at Ohio State. With the report due next year, the one-hundredth anniversary of our first award of a doctoral degree, they made note that while there is much that is good about the graduate education at Ohio State and our graduates have gone on to make significant contributions in academics, business, and other professions, the Commission report in conjunction with the strategic planning process will stimulate change and development as needed. I think it is most important that we recognize that our Graduate School truly drives our educational process here at Ohio State and their research projects are very important.

(See Appendix XXXVIII for complete text on the Executive Summary for the Graduate School Update, page 1163.)

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Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

#### **RENAMING OF DEPARTMENT**

Resolution No. 89-95

Synopsis: The Academic Affairs Committee recommended the renaming of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology.

WHEREAS the proposed name change of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology has the unanimous support of the faculty in the Department, the Executive Committee of the College of Veterinary Medicine, and the Council on Academic Affairs; and

WHEREAS on the national level the discipline of anatomy has expanded beyond traditional concepts and is using molecular and biological techniques; and

May 4, 1989 meeting, Board of Trustees

### **RENAMING OF DEPARTMENT (contd)**

WHEREAS departments of veterinary anatomy in a majority of the major institutions in this country have changed their names to more accurately reflect their new thrust in the cellular biology area; and

WHEREAS the Department has and will continue to redesign its curricula to reflect a cellular approach; and

WHEREAS new faculty will be conducting research in new areas of the discipline; and

WHEREAS the name change will make the Department more competitive for external funds, for new faculty, and for graduate students:

WHEREAS the University Senate approved the renaming of the Department of Veterinary Anatomy on April 8, 1989:

NOW THEREFORE

BE IT RESOLVED, That the proposal to change the name of the Department of Veterinary Anatomy to the Department of Veterinary Anatomy and Cellular Biology, effective immediately, is hereby approved.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY**

Resolution No. 89-96

Synopsis: The Academic Affairs Committee recommended the approval of the following amendments to the Rules of the University Faculty.

WHEREAS the University Senate pursuant to rule 3335-1-09 of the Administrative Code is authorized to recommend through the President to the Board of Trustees the adoption of amendments to the Rules of the University Faculty as approved by the University Senate; and

WHEREAS the proposed changes in the Rules of the University Faculty were approved by the University Senate on April 8, 1989, as follows:

#### **AMENDED RULES**

3335-5-06 Guest speakers.

It is the policy of the university to foster a spirit of free inquiry and to encourage the timely discussion of a broad range of issues, provided that the views expressed are stated openly and are subject to critical evaluation. Within our prevailing standards of decency and honesty, this policy shall be construed to mean that no topic or issue is too controversial for intelligent discussion on the campuses. Restraints on free inquiry should be held to that minimum which is consistent with preserving an organized society in which change is accomplished by peaceful, democratic means. To this end, registered student organizations, faculty, and others entitled to sponsor a meeting involving the use of university facilities (see rule 3335-13-03 of the

May 4, 1989 meeting, Board of Trustees

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

Administrative Code) may invite guest speakers to the campuses. The sponsors must take reasonable steps necessary to ensure that the meeting is conducted in an orderly manner.

3335-5-19 Faculty.

As used in these rules the term "faculty" shall include persons appointed by the board of trustees with regular, regular clinical, auxiliary, and emeritus faculty titles on full- or part-time appointments, with or without salary.

(A) unchanged.

(B) "Regular clinical faculty": persons with the titles of professor of clinical (department or college), associate professor of clinical (department or college), assistant professor of clinical (department or college), and instructor of clinical (department or college), who serve on appointments totaling fifty per cent or more service to the university. Regular clinical faculty appointments are made only in the college of dentistry, the college of optometry, the departments of veterinary clinical sciences and veterinary preventive medicine in the college of veterinary medicine, and the following departments in the college of medicine: anesthesiology, family medicine, internal medicine, neurology, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, physical medicine, preventive medicine, psychiatry, radiology, and surgery.

The number of persons holding regular clinical faculty titles in each department or college cannot be greater than one-third the number of persons holding regular faculty titles in that department or college. Individuals appointed to the regular clinical faculty are limited to participation in governance at the departmental and college levels, but may not participate in promotion and tenure matters of regular faculty.

3335-5-452 Secretary of the university senate.

(A) The secretary of the university senate shall be a tenured member of the regular faculty, appointed by the president from three nominees submitted by the steering committee. The term of office shall be for three years. Prior service as secretary need not preclude nomination to this office. During the term of office the secretary shall be reassigned for a minimum of fifty per cent of time to the office of the university senate during autumn, winter, spring, and summer quarters.

(B) The responsibilities of the secretary of the university senate will be to:

- (1) Serve as a resource person for members of the university community on matters relating to university governance and to activities of the university senate.
- (2) Promote active, effective participation in university governance by the members of the constituencies of the university senate.
- (3) Coordinate the responsibilities of the office of the university senate as described in rule 3335-19-09 of the Administrative Code.
- (4) Serve as a voting member of the program committee and the rules committee, a non-voting member of the steering committee of the university senate, and a member of the faculty advisory committee to the chancellor of the Ohio board of regents (FAC).

**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

- (5) Serve as a resource person for university and senate committees.
- (6) Issue notification of senate meetings, agendas, and reports of senate actions in accordance with rule 3335-19-11 of the Administrative Code.
- (7) Keep the records of the meetings of the university senate and furnish to the president for report to the board of trustees all matters passed by the university senate requiring board of trustees approval or action.
- (8) Serve as secretary of the university faculty in accordance with rule 3335-5-21 of the Administrative Code. (B/T 3/4/83, B/T 5/5/88, B/T 5/4/89)

**3335-47-11 Regular clinical faculty ranks.**

The titles of regular clinical faculty are professor of clinical (department or college), associate professor of clinical (department or college), assistant professor of clinical (department or college), and instructor of clinical (department or college). Individuals in this track may have a full range of responsibilities to appropriate academic units with emphasis on patient care and clinical teaching activities. Clinical activities for faculty members in this category are to be included in approved practice plans.

**(A) Appointment criteria.**

Initial appointments, or transfer, to the regular clinical faculty will be made for individuals with the following experience or credentials:

- (1) They are strict or geographic full-time faculty members in academic units authorized to make regular clinical faculty appointments (see paragraph (B) of rule 3335-5-19 of the Administrative Code).
- (2) Unchanged.
- (3) They have the appropriate educational background and credentials to engage in the activities outlined in paragraph (A)(2) of this rule. Formal requisite: D.D.S., D.V.M., M.D., or O.D. degree or equivalent qualification.
- (4) They are essential to the continuing mission of the relevant college as determined by the appropriate clinical department chairperson, dean of the college, and vice president for academic affairs and provost.

**(B) Term of appointment.**

(1), (2), (3), and (4) unchanged.

**(C) Transfers.**

It is generally expected that the needs of the academic unit and the career goals of the prospective faculty member will result in meshing of need, expectation, responsibility, and expertise to allow a long-term appointment to either the regular faculty or regular clinical faculty. Should a transfer be considered appropriate, the following must be accomplished:

(1), (2), and (3) unchanged.

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**AMENDMENTS TO THE RULES OF THE UNIVERSITY FACULTY (contd)**

(4) All transfers must be approved by the department appointments, promotions and tenure committee, the department chairperson, the dean of the college, and the vice president for academic affairs and provost.

(5) Unchanged.

(D) Promotions.

Nominations for promotion originate in the department (or college if no departments exist) in accordance with criteria and procedures established by departmental (or college) faculty.

(1) A department or college may recommend the promotion of an instructor of clinical (department or college) to the rank of an assistant professor of clinical (department or college) or the promotion of an assistant professor of clinical (department or college) to the rank of associate professor of clinical (department or college) at any time up to the end of the ninth year. An individual who is not promoted by the end of nine years will be reviewed by the chairperson or dean and the appointments, promotions and tenure committee of the department or college to determine if continued employment is warranted. All recommendations will be reviewed by the appointments, promotions and tenure committee of the department, the college, and the office of academic affairs.

(2) A department or college may recommend the promotion of an associate professor of clinical (department or college) to professor of clinical (department or college) in recognition of outstanding accomplishments. Promotion may be recommended no earlier than the third year of service as an associate professor of clinical (department or college). All recommendations will be reviewed by the appointments, promotions and tenure committee of the department, the college, and the office of academic affairs. (B/T 10/5/84, B/T 5/4/89)

NOW THEREFORE

BE IT RESOLVED, That the foregoing amendments to the Rules of the University Faculty be adopted as recommended by the University Senate.

Upon motion of Mr. Immke, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**POLICY ON PATENTS AND COPYRIGHTS**

Resolution No. 89-97

Synopsis: The Academic Affairs Committee recommended the following amendments to the Policy on Patents and Copyrights.

WHEREAS the Interim Policy on Patents and Copyrights was approved by the University Senate at its April 13, 1985 meeting, and approved by the Board of Trustees at its May 3, 1985 meeting; and



May 4, 1989 meeting, Board of Trustees

## **POLICY ON PATENTS AND COPYRIGHTS (contd)**

WHEREAS the Interim Policy called for a review of that document after two years; and

WHEREAS the Faculty Committee on Patents and Copyrights has proposed revisions to the Interim Policy on Patents and Copyrights; and

WHEREAS those revisions have been reviewed and approved by the Vice President for Research and Graduate Studies and the Council on Research and Graduate Studies; and

WHEREAS the University Senate approved the proposed revisions to the Interim Policy on Patents and Copyrights on April 8, 1989, as follows:

### **I. PURPOSE AND SCOPE**

#### **A. Purpose of Policy**

A primary mission of The Ohio State University is to encourage and support research by its faculty, students, and staff that will serve to expand the body of general knowledge and enrich the educational program of the University. As a corollary to that mission, the University is committed to facilitating the dissemination and utilization of the knowledge acquired by this research for the public good. It is recognized that this research may result in patentable inventions or copyrightable materials that will serve the public good through commercial development. Patents should be considered to be a part of the professional work of faculty members, along with journal articles, books, invited talks, and other methods of disseminating knowledge. Therefore this Policy on Patents and Copyrights is adopted for the following purposes:

- (1) to facilitate development and utilization of the results of research carried out in connection with University activities in a manner consistent with the University's missions;
- (2) to obtain appropriate benefits for the University from commercial applications of research results and apply funds accruing to the University from such applications for the support of research and other scholarly activity at the University and for sharing with the individual inventors and creators; and
- (3) to ensure that the rights and interests of all parties concerned are fairly determined, with full consideration of the proper role of the University and the principles of academic freedom.

#### **B. Definitions**

The following definitions will be employed in interpreting and implementing this Policy:

- (1) "Sponsored Program" means a research or other activity undertaken by the University or one of its units subject to specific obligations to another party. However, the ordinary obligations of the University to students (or their parents, guardians or dependents) solely as a consequence of enrollment or to faculty and staff (or their dependents) solely as a consequence of employment will not be construed as transforming normal enrollment or employment arrangements into agreements for Sponsored Programs.
- (2) "University Research" means any research or development activity which
  - (a) is undertaken in connection with a Sponsored Program, or

**POLICY ON PATENTS AND COPYRIGHTS (contd)**

- (b) is directly and immediately related to duties or responsibilities for which a person is compensated by the University or one of its units, or
  - (c) is conducted with more than insignificant use of facilities or equipment provided by the University or one of its units.
- (3) "Researcher" means any person, whether faculty, staff, student or other, engaging in or directing University Research.
- (4) "Product of University Research" refers generally to inventions and other legally protectable material arising out of University Research and includes any discovery, invention, know-how, design, model, work of authorship (including computer software), and any strain, variety or culture of an organism or any portion, modification, translation, or extension of these items. It includes marks used in connection with these. It does not include works of artistry, academic instruction, or traditional scholarship (including descriptions or discussions of University Research) insofar as these works were not produced as part of a Sponsored Program or of a specific University duty or assignment.

**C. Statement of Policy**

In order to provide for the fullest realization of benefits from University Research to the public, the University and individual Researchers, this Policy reaffirms the University's right and policy, consistent with applicable law, of ownership of all legal rights in Products of University Research and establishes procedures and guidelines to assure the responsible exercise of that right. Where the University does exercise the right of ownership, it has a commitment to taking reasonable and appropriate steps to secure legal protection through patents, copyrights and the like and to facilitate utilization through licensing or other transfer for practical development and introduction.

Subject to the provisions of this Policy, the acquisition, protection and disposition of rights in Products of University Research, and the collection and allocation of income therefrom, shall be under the direction of the Vice President for Research and Graduate Studies. The Vice President shall be guided by the principle that such arrangements should be consistent with the primary missions of the University to educate and to generate and disseminate knowledge.

Implementation of this Policy is dependent upon the cooperation of the University's faculty, students and staff. Individual Researchers will share in royalty or other income from their inventions or creations according to the provisions of this Policy. They will also have an avenue for appeal from administrative actions or delays.

**D. Scope of Policy**

This Policy is applicable to all units of the University including its colleges, schools, departments, centers, institutes, and hospitals, and to all of the University's faculty, staff (i.e., employees who are not regular faculty members), and students. Applicable law and the terms of Sponsored Program agreements and other contractual arrangements undertaken by the University or one of its units in good faith will govern where they differ from the provisions of this Policy.

It is not intended that this Policy change the traditional relationship between the University and faculty authors of textbooks and other scholarly and artistic works. Therefore, except in those cases in which the production of such materials is a part of a Sponsored Program or of specifically assigned duties of a faculty member, copyrights in textbooks, monographs, papers,

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## **POLICY ON PATENTS AND COPYRIGHTS (contd)**

musical compositions, works of art, unpublished manuscripts, and the like will be the sole and exclusive property of the faculty creator. Use of University resources in the creation of these works varies from field to field; arrangements for such use should be approved by the chairperson, dean, or other appropriate academic officer.

Except with respect to items which qualify as works made for hire under copyright law, staff members of the University shall be fully eligible for participation in the distribution of income or the transfer of University rights under this policy.

Students who are also employees of the University shall be treated under this Policy as staff members in connection with matters related to their employment. Students who hold awards such as scholarships or fellowships through the University upon which the funding body has placed restrictions as to items developed during the course of the award shall be treated under this Policy in the same manner as students working on Sponsored Programs.

In cases arising under Section I B(2)(c), the University will ordinarily transfer or waive its rights to student inventors or creators where the use of University facilities, equipment, or other resources has been properly authorized unless:

- (1) faculty or staff involvement is substantial and the University desires to exercise its rights based on that involvement,
- (2) the work is part of a larger work over which the University intends to exercise its rights, or
- (3) the use of such University facilities, equipment, or other resources is substantially in excess of the norm for educational purposes

Except in the circumstances described above, the University will not exercise a claim in student created textbooks, monographs, papers, musical compositions, works of art, unpublished manuscripts, and the like, arising under Section I B(2)(c) of this Policy. The properly authorized use by students of word processors, artistic studios and materials, and the like or the use of University libraries shall not constitute the basis for a University claim in items subject to this Policy.

Only trade and service marks specifically related to Products of University Research are within the scope of this Policy. Insofar as such marks involve the name or symbols associated with the University generally, or with other specific University activities, they will be dealt with in coordination with those having responsibility for matters relating to such name or symbols.

Except as to their use in University Research, questions concerning the use by or for the University, or its faculty, staff or students, of inventions, trade secrets, plant varieties, works of authorship (including computer software) and the like belonging to others are not within the scope of this Policy. General publication, performance and/or display activities of the University, such as those of The Ohio State University Press, University Publications, the Office of Continuing Education, the Cooperative Extension Service, University Galleries, WOSU Stations, and the intercollegiate athletics program, are not within the scope of this Policy except insofar as such activities are part of a Sponsored Program or result in the publication, performance and/or display of a work that is independently a Product of University Research.

In applying this Policy to particular situations, the version in effect at the time of such application will ordinarily be employed. For this purpose, income will normally be allocated under this Policy as of the time the income is received.

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## **POLICY ON PATENTS AND COPYRIGHTS (contd)**

### **II. ADMINISTRATION**

The Vice President for Research and Graduate Studies shall have the primary responsibility for the implementation of this Policy on behalf of the University. All or a portion of the administration of activities with respect to this Policy may be delegated by the Vice President to a Patent and Copyright Administrator ("Administrator") and to others.

#### **A. The Administrator**

The Administrator shall, under the general direction of the Vice President for Research and Graduate Studies:

- (1) with the Faculty Committee on Patents and Copyrights, develop standards and procedures for the implementation of this Policy for submission to the Vice President for Research and Graduate Studies;
- (2) conduct day-to-day operations relating to matters subject to this Policy;
- (3) upon request, provide advice and assistance to Researchers with respect to consulting agreements with industrial and other organizations that may involve rights to items within the scope of this Policy and to appropriate University officials who have responsibilities with respect to the approval of consulting arrangements;
- (4) maintain a file for each disclosure of an item subject to this Policy which will contain complete records of all actions;
- (5) determine whether the University or any other party has rights in an item subject to this Policy, and if so, the basis and extent of such rights;
- (6) where there are two or more persons associated with the University claiming to be inventors or creators of an item subject to this Policy, encourage and facilitate an early agreement (in a form acceptable to the University) among them concerning which of the claimants shall be considered inventors or creators for the purposes of this Policy and in what fraction each shall share in the benefits of the Policy;
- (7) in the absence of an agreement referred to in item (6) above, and after consulting with the Faculty Committee on Patents and Copyrights, recommend to the Vice President for Research and Graduate Studies for final determination on behalf of the University which of the competing claimants shall be considered inventors or creators for the purpose of this Policy and in what fraction they shall share in the benefits of the Policy;
- (8) determine whether an invention, discovery, writing, or other item to which the University has rights is patentable, copyrightable, or otherwise legally protectable;
- (9) for items subject to this Policy, recommend to the Vice President for Research and Graduate Studies whether
  - (a) the University should patent, copyright, or otherwise legally protect, or license the item, or

**POLICY ON PATENTS AND COPYRIGHTS (contd)**

- (b) the University should dedicate its rights to the public, adhering to the wishes of the inventor or creator where feasible, or
  - (c) the University should transfer or waive its rights in favor of permitting the Researcher to protect and develop the item at his or her own expense, and whether conditions should be attached to a transfer or waiver
- (10) obtain legal protection and arrange for licensing or other commercial development in those cases in which the University elects to pursue its rights, including preparing and prosecuting applications for patent, copyright registration, plant variety protection, and other legal protection, or retaining counsel or other assistance for that purpose, negotiating or assisting in negotiation of licenses and related agreements, and monitoring the collection of royalties or other related income;
  - (11) prepare or assist in the preparation of all required reports on inventions and discoveries, writings, and other items subject to this Policy;
  - (12) at the direction of the Vice President for Research and Graduate Studies, provide assistance to other University officers and officers of related organizations including The Ohio State University Research Foundation;
  - (13) consult with the Faculty Committee on Patents and Copyrights at least twice per year, or whenever deemed necessary by the Committee or the Vice President for Research and Graduate Studies, on matters concerning this Policy, its implementation, or administration;
  - (14) prepare an annual report for the Vice President for Research and Graduate Studies and for the President, the Vice President for Academic Affairs and Provost, the Vice President for Business and Administration, the Vice President for Finance, and other officers or committees as designated by the Vice President for Research and Graduate Studies.

The Administrator shall make a recommendation with regard to responsibility (9) above within ninety (90) days of the receipt of all of the required information, and advise the Researchers in writing of the decision of the Vice President for Research and Graduate Studies. The Administrator may consult with faculty, staff, students, or others with respect to carrying out these responsibilities.

**B. The Faculty Committee on Patents and Copyrights**

The Faculty Committee on Patents and Copyrights ("Committee") shall be composed primarily of members of the University faculty and shall elect its chair. Five members shall be elected by the Faculty Council in a manner to be determined by that Council. One graduate student shall be appointed by the Council of Graduate Students in a manner to be determined by that Council. Five members shall be appointed by the President in consultation with the Vice President for Research and Graduate Studies, the Vice President for Academic Affairs and Provost, and other appropriate officers of the University. Persons may serve no more than three consecutive years after which time they will be ineligible for service for one year. Members of the Committee shall not participate as members in deliberations or actions of the Committee concerning specific matters in which they have a beneficial interest. Official actions of the Committee shall require the concurrence of at least six members of the Committee.

**POLICY ON PATENTS AND COPYRIGHTS (contd)**

The Committee shall:

- (1) review, recommend, and advise the University on matters relating to this Policy;
- (2) review and advise the Administrator on the standards and procedures developed by the Administrator for the implementation of this Policy;
- (3) convene at least twice per year to review the procedures used in implementing and administering this Policy, and where deemed necessary, develop and recommend changes in standards and procedures to the Vice President for Research and Graduate Studies, the Vice President for Academic Affairs and Provost, the Administrator, and other appropriate officers of the University;
- (4) consult with the Vice President for Research and Graduate Studies or the Administrator when requested; and
- (5) serve as a board to which a Researcher may appeal actions of the Administrator, subject to appropriate review standards and procedures.

**C. Variation of Policy for Special Situations**

The Vice President for Research and Graduate Studies, with the concurrence of the Committee, may authorize variations from this Policy for good cause. Such variations shall be restricted to special situations.

**D. Appeal of Actions by the Administrator**

A Researcher may appeal actions of the Administrator to the Committee. Grounds for such appeal are alleged failure of the Administrator to fulfill the provisions of this Policy, to follow appropriate implementing guidelines, or to demonstrate reasonable diligence.

The Researcher shall submit the appeal in writing to the Chairperson of the Committee, who shall determine whether the Researcher has made a reasonable effort to resolve the complaint with the Administrator and whether the substance of the appeal appears to be within the scope of this Policy. Proceedings shall be informal, but all parties shall have adequate notice and an opportunity to be heard.

After considering all relevant information the Committee shall prepare and send to the Vice President for Research and Graduate Studies a report of its findings and decision on the issues raised by the Researcher and any corrective action it recommends. The Vice President shall promptly review the report and may adopt or modify it on behalf of the University. The Committee's finding as to whether an item is subject to ownership by the University under section I B(2)(b) or (c) shall be final and conclusive on the part of the University unless appealed by the Researcher.

The decision of the Vice President for Research and Graduate Studies shall be communicated to the Researcher and the Administrator within thirty (30) days of receipt of the Committee's report, and shall be final unless appealed to the President of the University by the Researcher or another interested party within thirty (30) days following the issuance. If so appealed, the decision of the President shall be final.

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## **POLICY ON PATENTS AND COPYRIGHTS (contd)**

If the Researcher, the Administrator, or any other person is concerned about protection of academic freedom as a result of the interpretation, implementation, or use of this Policy, the matter may be referred to the Committee for appropriate action.

### **III. RESPONSIBILITIES OF THE RESEARCHER**

#### **A. Disclosure**

Responsibility for timely disclosure of items subject to this Policy, such as copyrightable material and marks, inventions, discoveries and related know-how, rests with the inventors or creators. They shall take all reasonable steps requested by the Administrator including the execution of assignments and the like necessary for evaluation of the item and the perfection of patent or other rights.

Faculty or staff members, including students in their capacity as employees of the University, who believe that they have invented items outside the scope of this Policy shall not file, or permit others to file in their name, patent applications without providing at least thirty (30) days notice and a statement of the circumstances of the invention to the Administrator. At the Administrator's request, additional information as to the nature and circumstances under which the item was developed and a copy of the invention disclosure or proposed patent application, whichever the Administrator may deem appropriate under the circumstances, shall be provided.

#### **B. Consulting and Business Activities**

Faculty or staff engaging in consulting or in business and those charged with approving such activities on behalf of the University are responsible for ensuring that any related agreements with external entities are not in conflict with this Policy or other commitments involving the University. Faculty and staff members should make their obligations to the University clear to those with whom they make agreements and should provide other parties to the agreement with a current statement of this Policy. The Administrator, upon request, will provide assistance in this respect.

The University's rights and the individual's obligations to the University which are subject to this Policy are in no way abrogated or limited by the terms of such agreements with third parties, except insofar as the Vice President for Research and Graduate Studies may specifically authorize in writing. Requests for authorization to abrogate or limit the University's rights or the individual's obligations are to be submitted to the Administrator.

### **IV. RESPONSIBILITIES OF THE UNIVERSITY**

When the University makes the determination to exercise its rights to an item, it will promptly make appropriate efforts to legally protect the item and, with the assistance of the inventor or creator, it will search out and initiate negotiations with prospective licensees.

If the University does not choose to exercise its rights in an item through pursuit of legal protection and commercial development or otherwise or to transfer its rights to another party or to dedicate its rights to the public, or if the University chooses to protect an item, but does not arrange for its commercial development or dedication to the public within a reasonable time, then the inventor(s) or creator(s) may make a written request to the Administrator for transfer or waiver of the University's rights to themselves, and the Administrator will either recommend to the Vice President for Research and Graduate Studies that the request be granted, subject to any conditions deemed appropriate, or advise the requestor(s) of the University's plans for the item. Such transfers and waivers shall be subject to the retention of a non-transferable royalty-free license and to other reasonable conditions, but Researchers shall have the right in accord with

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## **POLICY ON PATENTS AND COPYRIGHTS (contd)**

Section II D to appeal any conditions, as well as any other aspect of the request, to the Committee.

The University shall treat disclosures of items subject to this Policy as confidential and shall make reasonable efforts to avoid loss of rights due to lack of appropriate documentation or to improper or premature disclosure or to publication without proper copyright notice.

### **V. TRANSFER OF UNIVERSITY PROPERTY**

The University must preserve any basis that may exist for protecting items subject to this Policy. In some cases, tangible property belonging to the University, including models, devices, designs, computer programs, cell lines, antibodies, recombinant materials, chemical compounds, compositions, formulations, plant varieties, and records concerning inventions or discoveries, constitutes a portion of that basis. Therefore, written approval of the Vice President for Research and Graduate Studies, or his or her delegate, must be obtained before tangible property associated with Products of University Research is removed from University facilities or transferred to any person or entity for commercial purposes. The Policy does not modify any existing requirements concerning the transfer of University property to others for non-commercial purposes.

Where required by a Sponsored Program agreement or where publication may affect the ability to legally protect an item subject to this Policy, timely prior written notice of any proposed publication reporting or describing any Product of University Research should be given to the Administrator so that patent applications may be filed in a timely fashion, appropriate copyright notices provided for, and any relevant obligations under a Sponsored Program agreement satisfied.

### **VI. DISTRIBUTION OF INCOME**

A royalty account will be established for each Product of University Research for which any royalty or other income for rights in such Product is received or for which any authorized expense for protecting or licensing such Product is incurred, and all such income and expenses shall be recorded therein. A single royalty account may be established for more than one such Product where they are so closely related that individual items of such income or expenses are applicable to them in common.

Income to each royalty account shall be allocated as follows, and the allocated amounts distributed at least annually:

- (1) Of the first \$75,000.00 of income,
  - (a) fifty percent shall be allocated to the individual inventor(s) or creator(s), or their heirs, and
  - (b) the other fifty percent shall be allocated (i) first to defray the authorized expenses chargeable to that royalty account, including reserves for anticipated expenses, (ii) next to defray the authorized expenses of other royalty accounts that have not realized sufficient income to fully defray their own expenses, and finally (iii) any remainder shall be allocated proportionately according to the provisions of VI(2)(b)(ii) and (iii).
- (2) Of income beyond the first \$75,000.00.



**POLICY ON PATENTS AND COPYRIGHTS (contd)**

- (a) an amount equal to any excess of authorized expenses of that royalty account over previous allocations of income from that royalty account to defray such expenses, shall first be allocated to cover such excess expenses, and
- (b) any remainder shall be allocated
  - (i) one-third to the individual inventor(s) or creator(s), or their heirs,
  - (ii) one-fourth to be used for the support of research and other scholarly activities as determined by the Vice President for Research and Graduate Studies in light of needs throughout the University, and
  - (iii) the balance to the college and department of the inventor(s) or creator(s), divided equally unless some other division is authorized by the Vice President for Research and Graduate Studies, to be used for the support of research and other scholarly activities.

Where revenue, other than as part of the payment for conducting a Sponsored Program, is received by the University or one of its units for providing physical embodiments of, or services involving the use of, a Product of University Research, the amount charged for such embodiments or services shall include the estimated value of the (intangible) rights involved, established with the approval of the Vice President for Research and Graduate Studies or designee, and the corresponding proportion of such revenue shall be transferred as income to a royalty account.

Where income is received for rights in possible future inventions, works of authorship, etc., it shall be held in a royalty account until completion or termination of the project or other activities to which the rights relate. If, as determined by the Administrator, no invention, work, etc., to which such rights apply is in fact produced, any portion of such income designated by VI(1) or (2) for allocation to individual inventor(s) or creator(s) shall instead be allocated equally to the college(s) and department(s) of the principal participant(s).

Awards, prizes, honoraria and the like received by individuals primarily as recognition for achievement are not considered to be royalty income subject to this policy, even if a transfer of rights in an invention, plant variety, design, work of authorship, etc. is a condition of the award, but any such transfer of rights in a Product of University Research is subject to the other provisions of this Policy.

Authorized expenses shall include expenditures for preparing and prosecuting applications for patent, plant variety protection, mask work protection and the like, including searches; official filing, registration, recording, issue and maintenance fees; legal services and other extraordinary expenses in connection with licensing and collection of income; and litigation. Ordinary administrative expenses will not be charged to royalty accounts, but where services that would normally incur chargeable expenses are provided internally, an appropriate charge may be levied as an expense against the relevant royalty account(s) to avoid discriminatory results. Where such expenses are incurred by a licensee under an agreement made subsequent to (date of adoption), the royalty account will recognize as expenses any portion offset against accrued royalties and as income any accrued royalties not paid because of such offset.

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### **POLICY ON PATENTS AND COPYRIGHTS (contd)**

Amounts allocated to individual inventors or creators will ordinarily be divided equally among them, or their respective heirs. However, individual inventors or creators, or their heirs, may enter into agreements to reallocate such amounts among themselves and/or other contributing Researchers, but unless such agreements are in writing, signed by all of those affected and submitted to the Administrator, and are acceptable to the University as to unambiguity of the reallocation, absence of burdensome administrative requirements and assurance that no coercion is implicated, the University will not be required to honor them. Where any amount allocated to an individual cannot be distributed within five years because of inability to locate such individual, or heirs, such amount shall be reallocated proportionately according to the provisions of VI(2)(b)(ii) and (iii).

Where rights in a Product of University Research are transferred or waived to the Researcher(s), the allocation of expenses and income relating to such rights as between the University and the Researcher(s), and the allocation of any University income to the Researcher(s) under VI(1)(a) and VI(2)(b)(i), shall be specified in writing.

When there is a reasonable basis for believing that amounts subject to allocation and distribution under this Policy may be required to be refunded or otherwise expended, or that others may have a claim to such amounts, allocation and distribution may be delayed for a reasonable period required for resolution of the matter. No person shall have a right to receive payment or other benefit under this Policy before the Administrator has been notified in writing by that person of his or her basis for a claim. Upon good faith determination by the Vice President for Research and Graduate Studies that an individual has not contributed significantly to the invention or creation of the item in question and has no other valid basis for a claim, that person shall not be eligible for payment or other benefit under this Policy with respect to such item. Payments made in good faith to one or more claimants shall fully satisfy any obligations on the part of the University to all claimants for the amounts so paid.

### **VII. REVIEW OF POLICY**

This Policy shall be reviewed from time to time by the Faculty Committee on Patents and Copyrights and a report made to the Vice President for Research and Graduate Studies. The report shall form the basis for any revision in the policy that may be appropriate.

NOW THEREFORE

BE IT RESOLVED, That the foregoing revisions to the Interim Policy on Patents and Copyrights be adopted as recommended by the University Senate.

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **NAMING OF BUILDING**

Resolution No. 89-98

Synopsis: The Academic Affairs Committee recommended the naming of a building on the Columbus Campus at 2036 Neil Avenue, currently known as the Civil and Aeronautical Engineering Building, in honor of Harold A. Boltz.

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**NAMING OF BUILDING (contd)**

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 2036 Neil Avenue is currently described as the Civil and Aeronautical Engineering Building; and

WHEREAS during his tenure as dean, Dr. Harold A. Bolz directed the College of Engineering's expansion and modernization to provide some of the finest facilities for engineering of any university in the country; and

WHEREAS he has been an outstanding representative of the University through his leadership role in both community service and professional societies; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned building at 2036 Neil Avenue be named in honor of Harold A. Bolz:

NOW THEREFORE

BE IT RESOLVED, that hereafter the building at 2036 Neil Avenue shall bear the name "Harold A. Bolz Hall."

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**NAMING OF BUILDING WING**

Resolution No. 89-99

Synopsis: The Academic Affairs Committee recommended the naming of the north wing of Hamilton Hall in honor of Professor Emeritus Emil Bozler.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the building on the Columbus campus at 1645 Neil Avenue is currently described as Hamilton Hall; and

WHEREAS during his 53 years at the University, Dr. Emil Bozler was known as a master scholar and educator; and

WHEREAS Dr. Bozler is internationally recognized for his scientific discoveries in muscle research; and

WHEREAS his work is the foundation of our current understanding of the origin and control of the heart beat; and

WHEREAS Dr. Bozler has brought great recognition to the State of Ohio, the University, and the College of Medicine; and

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### **NAMING OF BUILDING WING (contd)**

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned north wing of Hamilton Hall, located at 1645 Neil Avenue, be named in honor of Emil Bozler:

NOW THEREFORE

BE IT RESOLVED, That hereafter the north wing of Hamilton Hall shall bear the name "Emil Bozler Wing."

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **NAMING OF ROADWAY**

Resolution No. 89-100

Synopsis: The Academic Affairs Committee recommended the naming of the roadway on the Columbus Campus, currently known as the Campus Loop Road, in honor of John H. Herrick.

WHEREAS the Board of Trustees has authority in naming of all buildings and structures at The Ohio State University, as set forth in paragraph (G) of rule 3335-1-08 of the Administrative Code; and

WHEREAS the section of roadway west of the agriculture and veterinary medicine buildings is currently known as Campus Loop Road; and

WHEREAS during his term as executive director of Campus Planning, Dr. John H. Herrick was the guiding hand in the creation of the University's Campus Master Plan in the 1960's, from which the basic idea for the campus loop road emerged; and

WHEREAS since his retirement from the University, Dr. Herrick has continued to serve the University as a volunteer, researching and writing the history of campus buildings, a summary of campus planning, and other valuable documentations which are major resources for historians and University developers; and

WHEREAS the President recommended, with the concurrence of the President's staff, that the aforementioned Campus Loop Road be named in honor of John H. Herrick:

NOW THEREFORE

BE IT RESOLVED, that hereafter the roadway from Woody Hayes Drive south and east across the Olentangy River to Cannon Drive shall bear the name "John H. Herrick Drive."

Upon motion of Mrs. Bowser, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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May 4, 1989 meeting, Board of Trustees

### **HOSPITALS BOARD APPOINTMENT**

Resolution No. 89-101

Synopsis: The Academic Affairs Committee recommended the approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Charles Y. Lazarus has had a long and loyal association with this University and with University Hospitals; and

WHEREAS since the Board's creation he has been one of its most steadfast members; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy;

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Mr. Charles Y. Lazarus, effective May 1, 1989.

Upon motion of Mrs. Bowser, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **DEGREES AND CERTIFICATES - SPRING QUARTER COMMENCEMENT**

Resolution No. 89-102

Synopsis: The Academic Affairs Committee recommended the approval of Degrees and Certificates for Spring Quarter.

WHEREAS pursuant to paragraph (E) of rule 3335-1-06 of the Administrative Code, the Board has authority for the issuance of degrees and certificates; and

WHEREAS the faculties of the colleges and schools shall transmit, in accordance with rule 3335-9-29 of the Administrative Code, for approval by the Board of Trustees the names of persons who have completed degree and certificate requirements:

NOW THEREFORE

BE IT RESOLVED, That the degrees and certificates be conferred on June 9, 1989, to those persons who have completed the requirements for their respective degrees and certificates and are recommended by the colleges and schools, and that the names of those persons awarded degrees and certificates be included in the minutes of this meeting.

Upon motion of Mr. Immke, seconded by Mr. Berry, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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May 4, 1989 meeting, Board of Trustees

## PERSONNEL ACTIONS

Resolution No. 89-103

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the April 7, 1989 meeting of the Board, including the following Reappointment of Chairperson of Department, Leaves of Absence Without Salary and Emeritus Titles, as detailed in the University Budget be approved.

### Reappointment of Chairperson of Department

July 1, 1989 through June 30, 1990

Entomology

Clive A. Edwards

### Leaves of Absence Without Salary

CARLOS E. CUEVAS, Assistant Professor, Department of Agricultural Economics and Rural Sociology, effective March 27, 1989, through April 13, 1989, to consult in the Zaire Agricultural Policy and Planning Project sponsored by the U.S. Agency for International Development (USAID).

LINDA A. MIZER, Assistant Professor, Department of Veterinary Anatomy, effective April 13, 1989, through June 14, 1989, for medical and personal reasons.

### Emeritus Titles

HSIEN C. KO, Department of Electrical Engineering, with the title Chairperson and Professor Emeritus, effective January 1, 1989.

ANTOINETTE P. EATON, Department of Pediatrics, with the title Professor Emeritus, effective January 1, 1989.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## RESOLUTIONS IN MEMORIAM

Resolution No. 89-104

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolutions in Memoriam.

RESOLVED, That the Board adopt the following Resolutions in Memoriam and that the President be requested to convey a copy to the families of the deceased.

Frances E. Bovard

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 26, 1989, of Frances Eckert Bovard, Assistant Professor Emeritus in the Cooperative Extension Service.

May 4, 1989 meeting, Board of Trustees

### **RESOLUTIONS IN MEMORIAM (contd)**

Frances E. Bovard (contd)

Professor Bovard was born on November 30, 1911, in Portage, Ohio. She received her B.S. in Home Economics Education from Bowling Green State University in 1934; then spent three years as a teacher in the Portage and North Baltimore school system.

Professor Bovard began her Extension experience when she joined the faculty at The Ohio State University in 1937 as a Home Demonstration Agent, Home Economics in Lorain County. She later served in Henry County and Wood County as a County Extension Agent, Home Economics, before accepting the position of area Extension Agent, Home Economics, for the Defiance Extension area in 1970 and remained in this position until her retirement in 1974. Upon retirement, she was named Assistant Professor Emeritus.

Professor Bovard's contributions in providing excellent Extension educational programs during her career earned her the respect and admiration of her co-workers and many thousands of Ohio citizens.

On behalf of the University community, the Board of Trustees expresses its sympathy and understanding to the family of Professor Bovard. It was directed that this resolution be inscribed upon the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's heartfelt sympathy.

John B. Mowbray

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on February 27, 1989, of John B. Mowbray, Professor Emeritus in the Cooperative Extension Service.

Professor Mowbray was born January 20, 1921, in Frankfort, Ohio (Ross County). He served in the United States Air Force in North Africa and the Middle East from 1941-45. He was awarded a Bachelor of Science degree in 1947 and a Master's degree in 1955, both in Agricultural Education from The Ohio State University.

Professor Mowbray taught Vocational Agriculture from 1947 to 1951 upon graduation from The Ohio State University. In January 1952 he began his Extension experience when he joined the faculty at The Ohio State University as a County Extension Agent, Agriculture, in Warren County. He assumed the responsibilities of County Extension Agent, 4-H, in Warren County in 1958, and the next year moved to Adams County as the County Extension Agent, Agriculture, and remained in this position until 1965. He then joined Scioto County as the County Extension Agent, Agriculture and held this position until his retirement in 1979. Upon his retirement, he was named Professor Emeritus.

Professor Mowbray was a member of the National Association of County Agricultural Agents; the Ohio County Extension Agents' Association; National Farm Bureau; National Grange; Epsilon Sigma Phi Extension Honorary Fraternity; and was one of the original Extension agents in the development and building of 4-H Camp Graham. He has earned the respect and confidence of his peers, the clientele whom he had so dedicatedly served, and professionals within his county, the State of Ohio and the nation. John Mowbray had been recognized for his outstanding leadership abilities by receiving the Distinguished Service Award from the National Association of County Agricultural Agents and was a recipient of the National Association's Search for Excellence Award.

May 4, 1989 meeting, Board of Trustees

### RESOLUTIONS IN MEMORIAM (contd)

John B. Mowbray (contd)

On behalf of the University community, the Board of Trustees expresses to the family of Professor Mowbray its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University, and his many friends and associates have sustained.

Upon motion of Mr. Immke, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### STUDENT HEALTH INSURANCE

Resolution No. 89-105

Synopsis: The Student Affairs Committee recommended the renewal of the Student Health Insurance Program with Central Benefits Mutual Insurance Company, formerly known as Blue Cross of Central Ohio.

WHEREAS on April 8, 1988, this Board awarded a one year contract (effective Autumn Quarter 1988) to provide Student Health Insurance with the understanding that the program would be competitively rebid; and

WHEREAS after consideration of the desires and concerns of the students who purchase the insurance, the Student Health Insurance Committee of the Council of Student Affairs has recommended -- and the full Council on Student Affairs has ratified this recommendation -- that the competitively bid contract continue to provide the existing benefits plus the following improved/changed benefits:

Increase hospital room and board coverage as follows:

1989-90: from \$210 per day to \$220 per day (\$10 increase);  
1990-91: from \$220 per day to \$225 per day (\$5 increase).

For nervous/mental and outpatient substance abuse coverage, reduce participant deductible from \$500 to \$250 and increase plan coinsurance from 50% to 80% (for both plan years).

Increase major medical maximum coverage from \$25,000 to \$100,000 (for both plan years).

WHEREAS this program will be available on an optional basis to all registered students for the following proposed Quarterly Premium Rates:

<u>Classification</u>	<u>Expiring Quarterly Rates 1988-89</u>	<u>Proposed Quarterly Rates 1989-90</u>	<u>Proposed Quarterly Rates 1990-91</u>
Student	\$ 72	\$ 89	\$ 98
Student & Spouse	221	216	239
Student, Spouse & Children	322	408	450
Student & Children	171	279	307



May 4, 1989 meeting, Board of Trustees

### STUDENT HEALTH INSURANCE (contd)

#### NOW THEREFORE

BE IT RESOLVED, That Central Benefits Mutual Insurance Company be awarded the competitively bid Student Health Insurance contract effective the first day of classes, Autumn Quarter 1989, for a period of two (2) years. The contract will provide the benefits outlined above as well as those now available under the terms of the current contract.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix XXXVIII for Executive Summary of the Report on the Student Health Insurance Committee, Council on Student Affairs, March 1989, page 1165.)

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### STUDENT AFFAIRS COMMITTEE REPORT

Ms. Casto:

This morning we heard from Mr. Warren King, Director of the Office of Disability Services. He provided an overview of the many services that are offered in this office. They really do have phenomenal computer abilities in Disability Services. They do seem to have made it a lot easier for people who are handicapped and compensated in other ways so they are able to learn to whatever capacity they would like to learn.

(See Appendix XXXX for complete text of the Report on the Office for Disability Services, Division of Student Affairs, page 1169.)

I would like to call on Roger Musgrave --

Mr. Roger Musgrave:

Good afternoon, at the risk of making those who I have studied rhetoric with shutter, I am choosing to begin by reading to you just 100 words or so from this morning's Dispatch which you may not have seen. It reads:

"Graduate Assistants Walk Out of Classes, Berkeley, California, Associated Press."

"With final exams in two weeks, a union of 3,200 graduate assistants walked out of University of California classrooms yesterday to press for recognition as employees. They are union-based here. The Association for Graduate Student Employees is affiliated with United Auto Workers. It is the vanguard of a movement challenging the view of graduate students as scholars living off stipends. The students say they are underpaid, overworked, and often forced to go without health and other benefits."

So what else is new, right. But it does make me feel a little less like a voice crying in the wilderness given the things I have emphasized this year in my reports. More importantly, we think that this kind of thing illustrates that the classical views of the academy are evolving. Graduate Associates most certainly recognize that they are primarily students. But once we reach the point where more than half of the University's teaching is done by Graduate Associates, we also believe that there is no questions but that they are employees as well. The IRS certainly won't entertain

May 4, 1989 meeting, Board of Trustees

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

discussion about whether the stipends are earned income. In essence, CGS asks that the University's administration and faculty keep in mind that while most of the discussion about compensation levels occurs in November because stipend increases are granted in January, it is a continuing concern and one that will not go away.

We actually consider ourselves very fortunate that a situation such as the one at Berkeley has not occurred here. We believe this is probably not the right way to resolve our disagreements. We don't wish to see the undergraduates in our classes hurt, but actually, that is exactly the point. Given our present structure of being paid \$690 per month -- which works out to \$6,210 for the academic year -- and being required to teach two sections of a class with 46 students each, which meets five days a week -- and that is a half-time load. While most GA's actually have a much better situation than that, that situation can exist. And we just ask that everyone keep it in mind, recognize it, and continue to be concerned with it.

We realize the benefits issue is very complex as is obvious by the discussion of faculty/staff benefits. Self-determination for graduate students may be a partial answer in a lot of cases. The National Association of Graduate and Professional students is now in final negotiations with an insurance carrier which will hopefully offer a nationwide insurance plan for graduate students. We recognize that we at Ohio State already have a reasonable student health insurance program, but we will be interested in seeing what the premium will be for the new NAGS plan. GA's this year at Ohio State were granted a 4 per cent salary increase and most are expected -- and find it impossible -- not to hold off campus employment to supplement that income. Yet, you have seen the double digit increases projected for the health insurance today. Graduate Associates also buy gasoline, and on and on and on. Folks have brought this up and said, "What's wrong with this picture?"

We hope the NAGS graduate student health insurance offering will not disrupt the enrollment figures dramatically at Ohio State. But if graduate students united can create a lower premium for each other, CGS will encourage our graduate students to participate in the plan. It is quite possible the final premium offered will be much higher than what we have at Ohio State and relatively few here would enroll, nonetheless, we like the idea of our graduate students having a choice. Perhaps there will be a higher deductible on the plan, but perhaps it may also have a significantly higher major medical limit for those who need it. The other great benefit of this kind of activity is that there are a lot of graduate students across this country that have no health insurance available to them at all on their campuses, so we believe this is a national service that we can provide for other graduate students.

Related peripherally to this discussion, I won't be the CGS president next year, but I will be serving on a National Association of Graduate Students committee on labor and economic issues. At the very least, we hope we can gain a lot by exchanging information from campus to campus. Bob Bussle from Cornell will chair the committee and you will hear reports about our activities from the new CGS president.

Speaking of which, we had our elections this past Sunday and we are very pleased with our new officers. The vice president's position in CGS entails a lot of work and

May 4, 1989 meeting, Board of Trustees

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

little visibility. The Graduate Research Forum which occurred last month is run by our vice president. That position was filled this year by Luke Evans, who I thought was going to be here, but I don't think is. He has been elected our new president. I am sure he will be here next month so that I can introduce him to all of you. Luke is a Ph.D. candidate in Educational Policy and Leadership, and we look forward to your working with him next year. Our new vice president is Benetta Lucius, who served as the Council's secretary and acting vice president for one month this past year. Benetta is also enrolled in Educational Policy and Leadership. Our new secretary is Cynthia Carlson, enrolled in the Master's program in Natural Resources. And I have been accused of learning enough to see where the real power lies, and I have been elected to serve as treasurer for next year.

CGS is co-sponsoring the presentation of *BRAIDS*, a one act play telling the story of the riveting effects of AIDS on the black community in the United States. Performed by the theater company Living the Dream, Inc., it is being coordinated by the College of Social Work Student Association. It will be presented May 14 and 18 on our campus and we can provide more information if you are interested.

CGS is trying to get its office hardwired into the SONNET system, the on-campus computer networking facilities. We would like to have easy access to BITNET from our office to communicate with graduate student organizations and individuals elsewhere, and we would also like to be able to use E-Mail to communicate with our own campus constituency and perhaps institute a campus-wide graduate student bulletin board. We believe the technology isn't much good unless it is being used to serve people, and we hope we will be able to do our part soon.

Finally, we are very happy with the way our Graduate Research Forum went this year. The papers presented were uniformly impressive. We had quite a few guests in the audience, which sometimes we don't have. Everyone who presented their work gained good experience and we believe our faculty actually enjoyed participating themselves. I won't take the time to read the names of the winners in each program area to you, their names will appear in our next Graduate Voice. But do let me say that the judges in every area told us they had a difficult time in choosing one presentation in the area as the outstanding one. And in two areas the judges insisted that we present co-winners with the award. We do wish to thank the Graduate School and the Office of Research and Graduate Studies for their help in providing funds for the winners of the awards, the cost of the facilities, the judges' stipends, honoraria, and all the other little expenses we had to cover to pull the event off.

To close, I would like to add the Council of Graduate Students' best wishes and appreciation to Dr. Brand and Dr. Hollander.

Ms. Casto:

Roger, is this your last meeting?

Mr. Roger Musgrave:

I will be here for the next meeting. I get paid through the quarter, so I serve through the quarter.

May 4, 1989 meeting, Board of Trustees

### STUDENT AFFAIRS COMMITTEE REPORT (contd)

Ms. Casto:

Thank you. Athena --

Ms. Athena Yiamouyiannis:

Mr. Chairman, Mr. President, members of the Board of Trustees, good afternoon. I would like to begin my report of Undergraduate Student Government activities by telling you about Zoo Day. USG hosted the first ever Zoo Day as an educational awareness event for environmental and animal conservation issues. Undergraduate Student Government invited Jack Hanna, the director of the Columbus Zoo, and his animals out to The Ohio State University this past Tuesday. Originally we were going to have it at the Mirror Lake Amphitheater, but due to the inclement weather -- it was downpouring -- we had it inside at the Ohio Union Conference Theater. We had a great turnout. We had over 400 people in attendance. We had to turn people away and close the doors at that point. Jack Hanna brought a baby kangaroo, a hawk, a opossum, an owl, and some other animals. Everyone really did enjoy the event. The Lantern gave us great coverage. They ran an article and a picture the day of the event telling about it and also a follow up article on the next day on the front page of the Lantern. I have talked to Jack Hanna, and it looks promising for next year as well.

An upcoming event that USG is working on in conjunction with the Ohio Students Association was a rally that was to be planned here at The Ohio State University to go down to the Capital Building. Plans have been changed. The students are going to meet down at the State House instead, to lobby for more funding. A USG assembly resolution that is being researched in committee currently is on the Governor's tax initiative which may be put on the November ballot.

Another upcoming event that USG is involved with is hosting the Regional Campus Exchange Day. This is on Friday, May 12, from 10:30 a.m. to 2:30 p.m. Students from regional campuses will have an opportunity to come to the main campus to meet some students and get acquainted with the facilities and surroundings here. Originally this service was provided by the UVC (University College), but because of cost containment they have deleted the service from their programming. USG has picked it up this year and will hopefully continue to do so in future years.

This last year has gone very well for Scott Mounts, my vice president, and myself, as well as the other members of the Undergraduate Student Government. I would just like to recap some of the things that we have worked on over this past year. First of all, we had the Minority Affairs Reception this winter which Tyrome Alexander, after working with administrators, staff members and students through the entire quarter, compiled this. It was held in recognition of his efforts in this area and also in recognition of student organizations and other members of the University. Additionally, Jennifer Murray conducted a financial aid survey to address problems that students had on financial aid. The Undergraduate Student Government held a forum to help out with that problem. We addressed some women's affairs issues this past year. Assembly passed a resolution to address the low number of female faculty members at the full professor rank. Tuition increase was another issue that we addressed. With the rally on the Oval, it brought media attention and I think it addressed the students' concerns quite visibly. Also, we had for the first time at The Ohio State University two student Trustees to add to the group here.

May 4, 1989 meeting, Board of Trustees

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Ms. Yiamouyiannis: (contd)

It has been a very rewarding year for me. In addition to some of these successful programs that I have been able to be a part of, I have also been able to notice a few weaknesses in the program. I would like to share with you one of the problems that I am very much concerned with. This has to do with the process of the distribution of funds from the CSA Allocations Committee. First of all, there is a lack of funding. This year there was not enough money to be distributed to the groups. And I would hope that the President and administrators will see to it that maybe more compensation is awarded in this area. Because it is an important part of student life on campus.

In addition, I think the student representation needs to be enforced. On our committee there were a couple of people that were voting that were not supposed to be. So there was an imbalance in the number of faculty members to students voting. The problem was pointed out and was taken care of, but I think this just shows that maybe the whole process needs to be reviewed. And not only that, but the goals of the group need to be reemphasized to the entire group.

And more specifically, one problem which has been coming up every year, is that the Undergraduate Student Government is suppose to help vote on our personal budget as well as other student organization budgets. The money comes out of the same pot, so if we lobby for more for ourselves, we are taking away from the student organizations which we are supposed to be helping out as well. What I would suggest is that we work out some way where student government budgets are autonomous from student organizations. I have made the recommendation, the recommendation has been made in the past, but nothing has been changed. I think the problem is that every year we have a turnover in administration and the problem doesn't get taken care of. I am going to be leaving this as well as many other responsibilities in the hands of my successors. They are going to be working on some of these proposals this summer.

One of my successors, David Staub, who was elected President about two weeks ago, is in the audience with us. David, do you want to stand up? Bart Deems is his new Vice President. They do have a big job ahead of them, and I wish them the best of luck. The inauguration will take place May 17 in the Student Lounge at the Ohio Union at 4:30 p.m. and everyone is welcome to attend. Scott Mounts and myself have been meeting both with David and Bart on a regular basis to get them acquainted with the office, their responsibilities, and giving further insight into USG projects. We do look forward to the future growth of USG.

In closing, I would like to say that this has been a great opportunity to meet with everyone at the University with numerous students, faculty members, and administrators, and also you, the members of the Board of Trustees. I will miss everyone, but not too much because I will be coming back this fall and attending Graduate School here at Ohio State University in Sports Administration. Thank you.

Ms. Casto:

Athena, we have this document to present to you that says:

WHEREAS Athena Yiamouyiannis has served as president of the Undergraduate Student Government during the past year; and

May 4, 1989 meeting, Board of Trustees

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Ms. Casto: (contd)

WHEREAS she has carried out an assignment in an exemplary manner; and

WHEREAS her leadership in representing the interest of students has been positive in nature as has been her communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Athena Yiamouyiannis its sincere appreciation and gratitude for a job well done and conveys to her its best wishes for success in the future.

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**AGRICULTURAL AFFAIRS COMMITTEE REPORT**

Mr. Teaford:

Today, Dr. Moser, who is the head of the Ohio Cooperative Extension Service, reported to us. He told us about an outside organizational review which had just been completed which was done by administrators from other universities across the country. He indicated to us that he was adopting virtually all of the recommendations of that review committee. A reorganization has really become necessary within Cooperative Extension because of the downsizing that has been the result of tightening budgets. This has really affected Cooperative Extension probably more than any other single part of the University.

Among the recommendations were that there should be significantly more coordination of state-wide programs, that there is a real need to develop better relationships between the Columbus faculty and the Extension faculty. Because, after all, one of the principal purposes of Cooperative Extension is the dissemination of research and of course it is the Columbus faculty that is doing much of that research.

Among the other recommendations was with regard to 4-H, which as you know is part of the Cooperative Extension mission. The recommendation was that faculty members from outside the Colleges of Agriculture and Home Economics should be utilized in order to work with the 4-H youth. Because today, of course, 4-H is almost as much an urban program as it is a rural one.

The committee also recommended that Cooperative Extension pay particular attention to the need for ethnic and cultural diversity within that agency. And they are, in fact, already implementing those suggestions.

(See Appendix XXXXI for complete text of the Organizational Review Team and the Organizational Review Recommendations, page 1173.)

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May 4, 1989 meeting, Board of Trustees

## **FISCAL AFFAIRS COMMITTEE REPORT**

Mr. Berry:

The committee met this morning. We first heard and received the third quarter report on the status of the 1988-89 budget. This report shows an increase in estimated revenues and expenditures of \$7.4 million, an increase of 0.7 per cent. Most of this adjustment is due to increases in restricted funds such as sponsored research and gifts. Also, the budget adjustments approved in January by the Hospitals Board are reflected in this report. I have talked with Mr. Ihrig about doing everything possible that he can to bring this up-to-date through May 3. And he thinks he can get it up over \$1 billion so that Len can go out as the first chairman with a billion dollar budget! I thought I'd put that in.

During the first quarter of 1989, there were 29 waivers of competitive bidding requirements, which totaled some \$2.6 million. These waivers were reviewed in accordance with the Board Policy. (See Appendix XXXXII for complete text of The Ohio State University 1988-89 Current Funds Budget - 3rd Quarter Report, page 1183, and Appendix XXXXIII for complete text of Waivers of Competitive Bidding Requirements - January - March 1989, page 1189.)

In addition to this report, the Committee is recommending for Board approval the resolutions:

### **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS**

Resolution No. 89-106

Synopsis: The Fiscal Affairs Committee recommended the approval of the following reports on contracts, grants, and gifts and the summary for March 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, and The Ohio State University Development Fund:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station and The Ohio State University Development Fund during the month of March 1989 be approved.

Upon motion of Mr. Berry, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

May 4, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR MARCH 1989**

Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	125	\$7,888,284.00
Engineering Experiment Station 44		\$ 557,700.00
Total	169	\$8,445,984.00

The Ohio State University Development Fund

Establishment of Named Funds

The Hazael Edward Welton Endowment Fund (Scholarship awards to Black and Hispanic students enrolled in the College of Optometry)	\$ 77,875.06
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The Wendell D. and Helen R. Postle Scholarship Fund (Scholarships - College of Dentistry)	\$ 57,810.73
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Medical Director - Clinical Research Support Fund (Support of clinical research projects)	\$ 30,000.00
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The Rho Pi Phi Scholarship Fund in Pharmacy (Scholarships)	\$ 20,000.00
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The Thomas Stickley International Graduate Scholarship Fund (Scholarships)	\$ 15,935.00
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The Kenneth W. Reisch Excellence in Teaching Fund (Sponsor a lecture or symposium - College of Agriculture)	\$ 15,914.00
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Mary H. and J. Churchill Hodges Endowment Fund

(Scholarships - residents of counties served by the Tri State Alumni Club)	\$ 15,229.00
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The Dorothy Jones Williams Memorial Scholarship Fund (Scholarships - College of Business)	\$ 15,000.00
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Change in Description of Named Fund

Arthur E. Baggs Memorial Fund



May 4, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Report - March 1989

#### Federal Research Contracts/Grants

\$746,560.00 - National Aeronautics and Space Administration, Langley Research Center, Hampton, Virginia, Compact Range and Radar Cross Section Studies, ElectroScience Laboratory, Department of Electrical Engineering (W. D. Burnside and L. Peters, Jr.), 1 February 1989 through 28 February 1990. (Project 761608 - Continuation)

\$348,833.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Pathobiological Determinants of Atherosclerosis in Youth, Department of Surgery (J. F. Cornhill), 1 March 1989 through 28 February 1990. (Project 764727 - Continuation)

\$256,991.00 - Department of Health and Human Services, National Institute of Mental Health, Bethesda, Maryland, Caregivers of Alzheimer's Disease Victims: Stress and Mental Health, Department of Psychiatry (J. Kiecolt-Glaser) and Department of Microbiology and Immunology (M. R. Glaser), 1 April 1989 through 31 March 1990. (Project 765958 - Continuation)

\$212,927.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Endotracheal Suctioning in Acutely Ill Adults, Department of Life Span Process (K. S. Stone), 1 April 1989 through 31 March 1990. (Project 765998 - Continuation)

\$189,557.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, RNA Splicing in Neurospora Mitochondria, Department of Molecular Genetics and Department of Biochemistry (A. M. Lambowitz), 1 April 1989 through 31 March 1990. (Project 765596 - Continuation)

\$188,244.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Cognitive Engineering in Aerospace Applications, Department of Industrial and Systems Engineering (D. D. Woods and P. J. Smith), 1 April 1989 through 31 March 1990. (Project 767386 - New)

\$180,459.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Neoplastic Transformation of Human Epithelial Cells, Department of Physiological Chemistry (G. E. Milo), Comprehensive Cancer Center and Department of Microbiology (B. S. Zwillig), and Diagnostic Services (C. F. Shuler), 1 April 1989 through 31 March 1990. (Project 761756 - Continuation)

\$173,639.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Chemistry of Novel Natural Inhibitors of Carcinogenesis, College of Pharmacy, (J. M. Cassidy), 1 April 1989 through 31 March 1990. (Project 766665 - Continuation)

\$166,571.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Unusual Biologically Active Terpenes, Department of Chemistry (L. A. Paquette), 1 April 1989 through 31 March 1990. (Project 763497 - Continuation)

\$163,284.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Cardio-pulmonary Actions -- Trimetoquinol Analogs, College of Pharmacy (D. D. Miller and D. R. Feller), 1 April 1989 through 31 March 1990. (Project 761574 - Continuation)

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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Federal Research Contracts/Grants (contd)

\$161,724.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Mechanism of Phospholipase A<sub>2</sub>, Department of Chemistry (M. D. Tsai), 1 April 1989 through 31 March 1990. (Project 767369 - New)

\$160,000.00 - Department of the Army, Army Materiel Command, Fort Belvoir, Virginia, Modification of the OSU/ESL Video Pulse Mine Detector to Eliminate Ground Contact, ElectroScience Laboratory, Department of Electrical Engineering (L. Peters, Jr.), 22 March 1989 through 22 March 1990. (Project 767388 - New)

\$158,937.00 - Department of Health and Human Services, National Center for Nursing Research, Bethesda, Maryland, Interval Training and Cancer Patients' Functional Capacity, Department of Family and Community Nursing (M. G. MacVicar), 15 April 1989 through 31 March 1990. (Project 766682 - Continuation)

\$156,600.00 - National Science Foundation, Washington, D.C., Syntheses and Studies of Selected Metal Carbonyl and Boron-Metal Carbonyl Clusters, Department of Chemistry (S. G. Shore), 1 September 1989 through 31 August 1990. (Project 766824 - Continuation)

\$138,955.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neuromodulators in Cerebellar Circuitry, Department of Anatomy (G. A. Bishop), 1 March 1989 through 28 February 1990. (Project 763013 - Continuation)

\$133,195.00 - National Science Foundation, Washington, D.C., Maintenance of the Bacillus Genetic Stock Center, Department of Biochemistry (D. H. Dean), 15 March 1989 through 28 February 1990. (Project 767330 - Continuation)

\$132,222.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, General Clinical Research Center, College of Medicine - Administration (M. Tzagournis) and Department of Internal Medicine (W. Malarkey), 1 December 1988 through 30 November 1989. (Project 761196 - Continuation)

\$124,966.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Biologically Active Alkaloids, Department of Chemistry (D. J. Hart), 1 April 1989 through 31 March 1990. (Project 762083 - Continuation)

\$120,000.00 - Environmental Protection Agency, Washington, D.C., Biological Consequences of Global Atmospheric Hydrocarbons on Human Neonatal Fibroblasts: Molecular Models Applicable to the Analysis of Electronic and Steric Effects of Substituents on Structure-Toxicity Relationships, College of Pharmacy (D. T. Wiliak), 22 February 1989 through 21 February 1991. (Project 767314 - New)

\$112,764.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Feline Retrovirus-Associated Endocrine Dysfunction, Department of Veterinary Pathobiology (J. L. Rojko, L. E. Mathes and C. A. Brooks), 1 March 1989 through 28 February 1990. (Project 767361 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$110,937.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Regulation of Histidine Utilization in *Streptomyces*, Department of Microbiology (K. E. Kendrick), 1 April 1989 through 31 March 1990. (Project 767370 - New)

\$110,190.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Packet Radio Networks with Adaptive Arrays, ElectroScience Laboratory, Department of Electrical Engineering (R. T. Compton, Jr.) and Department of Electrical Engineering (R. L. Hamilton), 1 March 1989 through 28 February 1990. (Project 767335 - New)

\$103,335.00 - National Science Foundation, Washington, D.C., Enhancing Mathematics Through Technology Inservice, Department of Mathematics (F. Demana and B. K. Waits) and Department of Educational Theory and Practice (A. Osborne and G. Foley), 1 June 1989 through 31 May 1990. (Project 767372 - New)

\$100,000.00 - Department of Energy, Argonne, Illinois, Investigations of Ultrasonic Wave Interactions at Boundaries Separating Anisotropic Materials, Department of Welding Engineering (L. Adler), 1 April 1989 through 31 March 1990. (Project 764033 - Continuation)

\$98,621.00 - National Science Foundation, Washington, D.C., Mesoscale Cyclone Dynamics Around Antarctica, Byrd Polar Research Center (D. H. Bromwich), 1 June 1989 through 31 May 1991. (Project 767340 - New)

\$97,000.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Novel Ultrasonic Techniques for Inter-face Studies, Department of Welding Engineering (L. Adler), 1 April 1989 through 30 November 1989. (Project 766985 - Continuation)

\$95,706.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Human Thrombin: Binding and Recognition Sites, Department of Chemistry (L. J. Berliner), 1 February 1989 through 31 January 1990. (Project 761742 - Continuation)

\$84,876.00 - National Science Foundation, Washington, D.C., Orthogonal Polynomials and Their Applications, Department of Mathematics (P. Nevai), 1 January 1990 through 31 December 1990. (Project 766825 - Continuation)

\$82,736.00 - Department of Health and Human Services, National Institute of Child Health and Human Development, Bethesda, Maryland, Sertoli Cell-Germ Cell Surface Membrane Interactions, Department of Anatomy (R. M. DePhilip), 1 March 1989 through 28 February 1990. (Project 764825 - Continuation)

\$81,063.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Structure, Function, and Dynamics of P-450 Cytochromes, College of Pharmacy (S. Black), 1 February 1989 through 31 January 1990. (Project 766583 - Continuation)

\$76,737.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Conformational and Electrostatic Effects in Plastocyanin, Department of Biochemistry (E. L. Gross), 1 April 1989 through 31 March 1990. (Project 765991 - Continuation)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$76,000.00 - National Science Foundation, Washington, D.C., Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: Techniques Development and Non-Biological Application, Chemical Instrumentation Center, Department of Chemistry and Department of Biochemistry (A. G. Marshall), 1 October 1989 through 30 September 1990. (Project 766684 - Continuation)

\$75,591.00 - National Science Foundation, Washington, D.C., Curing of Low Shrinkage Unsaturated Polyester Resins in Reactions Processing, Department of Chemical Engineering (L. J. Lee), 1 March 1989 through 28 February 1990. (Project 767359 - New)

\$75,000.00 - National Science Foundation, Washington, D.C., Low Temperature Electronic Properties of Conducting Solids, Department of Physics (J. C. Garland), 1 March 1989 through 28 February 1990. (Project 767331 - New)

\$74,717.00 - Environmental Protection Agency, Washington, D.C., Promotion of Carcinogenesis: Role of Aberrant tRNA Modification, Department of Physiological Chemistry and Comprehensive Cancer Center (R. W. Trewyn), 8 March 1989 through 7 March 1991. (Project 764159 - Continuation)

\$74,227.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Physical and Mechanical Properties of Composite Materials, Department of Materials Science and Engineering (R. H. Wagoner and V. K. Tewary), 6 February 1989 through 5 February 1990. (Project 766671 - Continuation)

\$71,240.00 - National Science Foundation, Washington, D.C., Summer Mathematics Program, Department of Mathematics (A. E. Ross, G. Edgar and D. Ray-Chaudhuri), 15 February 1989 through 30 June 1990. (Project 767333 - New)

\$70,000.00 - National Science Foundation, Washington, D.C., Inelastic Light Scattering Studies of Quantum-Layered Semiconductors and Metallic Microstructures, Department of Physics (R. Sooryakumar), 1 November 1989 through 31 October 1990. (Project 766205 - Continuation)

\$69,571.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Study of Powder Agglomeration in a Microgravity Experiment, Department of Materials Science and Engineering (J. D. Cawley), 24 May 1989 through 23 May 1990. (Project 765777 - Continuation)

\$65,000.00 - National Science Foundation, Washington, D.C., Highly-Excited States of Atoms and Molecules, Department of Physics (R. D. Knight), 1 May 1989 through 30 June 1990. (Project 766887 - Continuation)

\$63,328.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Fundamental Research on Erosion in Magnetoplasmadynamic Thrusters, Department of Mechanical Engineering (V. Subramaniam and J. W. Rich) 30 September 1989 through 29 September 1990. (Project 766307 Continuation)

\$55,000.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Adaptive Arrays for Satellite Communication, ElectroScience Laboratory, Department of Electrical Engineering (I. J. Gupta and E. K. Walton), 21 March 1989 through 30 June 1989. (Project 764040 - Continuation)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

\$53,000.00 - National Science Foundation, Washington, D.C., Noise-Induced Turbulence in Superfluid Helium, Department of Physics (J. T. Tough), 1 November 1989 through 31 October 1990. (Project 766036 - Continuation)

\$52,029.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, 44th Molecular Spectroscopy Symposium, Department of Physics (K. N. Rao), 6 March 1989 through 5 March 1992. (Project 767383 - New)

\$51,844.00 - Department of Health and Human Services, National Library of Medicine, Bethesda, Maryland, Computer-Based Pathology Consultation, Department of Pathology (J. W. Smith), 1 March 1989 through 28 February 1990. (Project 764598 - Continuation)

\$50,024.00 - National Science Foundation, Washington, D.C., Mesozoic and Cenozoic Kinematic Evolution of the Transantarctic Mountains, Byrd Polar Research Center and Department of Geology and Mineralogy (T. J. Wilson), 1 July 1989 through 31 December 1990. (Project 767387 - New)

\$50,000.00 - National Science Foundation, Washington, D.C., Ohio Academic Resources Network (OARNET), Ohio Supercomputer Center (C. F. Bender and A. A. Brown), 15 March 1989 through 31 March 1990. (Project 767389 - New)

\$40,250.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Laser Diagnostic Studies of Plasma Thrusters, Department of Aeronautical and Astronautical Engineering (T. M. York), 1 May 1989 through 30 April 1990. (Project 767344 - New)

\$39,500.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Plate Vibrations: A Summary of Useful Results, Department of Engineering Mechanics (A. W. Leissa), 1 March 1989 through 15 September 1989. (Project 766608 - Continuation)

\$37,500.00 - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Linguistics (M. E. Beckman), 1 September 1988 through 28 February 1990. (Project 766861 - Continuation)

\$34,000.00 - National Security Council, Central Intelligence Agency, Washington, D.C., LDC Energy Data Base Collection, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (W. S. Chern), 1 April 1989 through 28 February 1990. (Project 766381 - Continuation)

\$33,845.00 - National Science Foundation, Washington, D.C., Models of the Location of Hub Facilities, Department of Geography (M. E. O'Kelly), 1 March 1989 through 28 February 1990. (Project 767343 - New)

\$30,301.00 - Department of the Navy, Office of Naval Research, Arlington, Virginia, Identification of Airborne Radar Targets, ElectroScience Laboratory, Department of Electrical Engineering (E. K. Walton, R. L. Moses and F. D. Garber), 1 May 1989 through 31 October 1989. (Project 765216 - Continuation)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$26,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Computational Study of the Jet-in-the-Ground-Effect Flow with Dynamically Adaptive Grid, Department of Mechanical Engineering (S. Nakamura), 21 March 1989 through 20 March 1990. (Project 766675 - Continuation)

\$22,056.00 - Department of Transportation, National Highway Traffic Safety Administration, East Liberty, Ohio, Comparison of Materials for Hybrid III Ribs, Department of Mechanical Engineering (J. A. Collins), 1 April 1989 through 30 September 1989. (Project 766989 - Continuation)

\$21,800.00 - National Science Foundation, Washington, D.C., Social Psychophysiology Research Program: Phase II, Department of Psychology (J. T. Cacioppo), 1 February 1989 through 31 January 1990. (Project 767272 - New)

\$21,000.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Gastric Function: Medullary Control, Department of Physiology (R. C. Rogers), 1 April 1989 through 31 March 1990. (Project 767391 - New)

\$20,000.00 - Department of the Air Force, Air Force Systems Command, Bolling Air Force Base, D.C., Relegation for Decentralized Control, Department of Electrical Engineering (U. Ozguner), 1 March 1989 through 30 September 1989. (Project 767334 - New)

\$19,475.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Development and Plasticity of the Vertebrate Spinal Cord: Progress and Future Directions, Department of Anatomy (G. F. Martin, Jr.), 1 March 1989 through 28 February 1990. (Project 767345 - New)

\$9,910.00 - Department of Commerce, National Institute of Standards and Technology, Gaithersburg, Maryland, Contact Stresses, Deformation, Film Thicknesses and Friction Torques in Lubricated Conjunctions, Department of Mechanical Engineering (B. J. Hamrock and K. Ishii), 1 October 1988 through 30 June 1989. (Project 767328 - New)

\$9,529.00 - Department of Health and Human Services, Fogarty International Center, Bethesda, Maryland, EWAIF and Pulse-Ribbon Models of Auditory Perception, Division of Speech and Hearing (L. Feth), 9 March 1989 through 30 September 1989. (Project 767347 - New)

\$8,000.00 - National Science Foundation, Washington, D.C., Studies of Petrified Paleozoic Fungi, Department of Botany (T. N. Taylor), 15 June 1989 through 31 January 1990. (Project 765204 - Continuation)

\$7,000.00 - Department of Agriculture, Forest Service, Burlington, Vermont, Quality Recreation in Developed Natural Areas: An Importance/Performance Analysis, Department of Natural Resources - OARDC and School of Natural Resources (J. E. Christensen), 15 June 1989 through 30 September 1991. (Project 767346 - New)

\$6,000.00 - National Aeronautics and Space Administration, Ames Research Center, Moffett Field, California, Enroute Flight Path Planning: Cooperative Performance of Flight Crews and Knowledge-Based Systems, Department of Industrial and Systems Engineering (P. J.

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Federal Research Contracts/Grants (contd)**

Smith) and Department of Aviation (C. E. McCoy), 1 February 1989 through 31 March 1989. (Project 766649 - Continuation)

\$5,000.00 - National Science Foundation, Washington, D.C., Development and Plasticity of the Vertebrate Spinal Cord: Progress and Future Directions, Department of Anatomy (G. F. Martin, Jr.), 1 April 1989 through 31 March 1990. (Project 767360 - New)

\$4,500.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Dentistry, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767355 - Continuation)

\$3,598.00 - National Science Foundation, Washington, D.C., Do V-A Mycorrhizae Regulate Responses of Perennial Herbs to Forest Canopy Gaps?, Department of Botany (R. E. J. Boerner), 1 March 1989 through 30 September 1989. (Project 765303 Continuation)

\$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Biological Sciences, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767354 - Continuation)

\$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767351 - Continuation)

\$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Pharmacy, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767353 - Continuation)

\$3,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Minority High School Student Research Apprenticeship Program/Veterinary Medicine, Office of Minority Affairs (L. G. Morrow), 1 March 1989 through 28 February 1990. (Project 767352 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$6,562,863.00**

#### **State of Ohio Research Contracts/Grants**

\$140,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Acquisition of a Research Vessel, Department of Zoology (B. Vondracek), 12 September 1988 through 30 June 1989. (Project 767054 - Continuation)

\$63,125.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Center for Real Estate Education and Research, Academic Faculty of Finance (R. L. Racster), 1 January 1989 through 31 December 1989. (Project 767319 - Continuation)

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**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$34,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, The Language of Soviet Media, Foreign Language Center (G. L. Ervin), 16 December 1988 through 30 September 1989. (Project 767356 - New)

\$25,000.00 - State of Ohio, Department of Health, Columbus, Ohio, Early Intervention Update Survey, Nisonger Center (E. King and S. R. Schroeder), 1 July 1988 through 30 September 1988. (Project 767019 - New)

\$21,000.00 - State of Ohio, Board of Regents, Columbus, Ohio, Enhancing the Learning of Japanese at the Middle School Level, Department of Educational Studies: Humanities, Science, Technological and Vocational (E. B. Bernhardt and K. Samimy), 16 December 1988 through 30 September 1989. (Project 767316 - New)

\$18,991.00 - State of Ohio, Department of Education, Columbus, Ohio, Assisting the Ohio Division of Vocational Education Coordinate Linkages Between Occupational Work Adjustment Programs and Job Training Partnership Administration, Center on Education and Training for Employment (R. D. Ryan), 1 January 1989 through 30 June 1989. (Project 767378 - Continuation)

\$17,875.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Geodetic Advisor for the State of Ohio, Center for Mapping (J. D. Bossler), 1 July 1988 through 30 June 1989. (Project 766336 - Continuation)

\$11,739.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Yellow Springs Urban/Rural Interface Project, School of Natural Resources (E. F. Epstein), 1 October 1988 through 30 September 1990. (Project 767374 - New)

\$7,407.00 - State of Ohio, Department of Commerce, Columbus, Ohio, Agency Disclosure Program, Academic Faculty of Finance (R. L. Racster), 1 May 1988 through 31 December 1988. (Project 766767 - Continuation)

\$5,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, AIDS: The Artists' Response -- A National Conference, Wexner Center for the Visual Arts (R. Stearns), 3 December 1988 through 15 July 1989. (Project 767350 - New)

\$3,000.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Vegetation Inventory and Structural Studies of Gross Woods and Drew Woods State Nature Preserves and Synthesis of Data for the Development of a Framework for Assessing Significance of Forested Sites in Glaciated Ohio, Department of Botany (R. E. J. Boerner), 1 June 1989 through 1 June 1990. (Project 767338 - New)

**TOTAL - STATE OF OHIO AWARDS**

**\$ 347,137.00**

**Industrial Research Contracts/Grants**

\$107,300.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Effect of Concomitant Rifampin Therapy on the Disposition of Fluconazole, Department of Pharmacology (N. Gerber), 16 September 1988 through 15 March 1989. (Project 765696 Continuation)



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## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$70,000.00 - Pfizer, Inc., Groton, Connecticut, Multicenter Comparison of Fluconazole and Amphotericin B as Treatment for Acute Cryptococcal Meningitis, Department of Internal Medicine (S. L. Koletar), 1 December 1988 through 30 November 1990. (Project 767358 - New)

\$57,908.00 - Pfizer, Inc., Groton, Connecticut, Phase I Study of the Safety, Toleration, and Bioavailability of Two Topical Piroxicam Formulations in Healthy Volunteers, Department of Pharmacology (N. Gerber), 16 November 1988 through 15 May 1989. (Project 765696 - Continuation)

\$47,046.00 - Kinaform Technology, Inc., Dayton, Ohio, Disopyramide Bioavailability Pilot Study, Department of Pharmacology (N. Gerber), 1 June 1988 through 31 May 1989. (Project 765696 - Continuation)

\$40,000.00 - Perkin Elmer Corporation, Danbury, Connecticut, Engineering and Analytical Testing of Low Observable Principles, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 31 July 1989. (Project 767393 - New)

\$36,000.00 - NeoRx Corporation, Seattle, Washington, Production of Pseudomonas Exotoxin A Solution, Department of Microbiology (D. R. Galloway), 1 February 1989 through 31 March 1989. (Project 767384 - New)

\$35,000.00 - Farmitalia Carlo Erba S.p.A., Milan, Italy, Synthesis of Novel Anthracycline Glycosides, Department of Chemistry (D. Horton), 1 March 1989 through 28 February 1990. (Project 767377 - New)

\$30,000.00 - Adria Laboratories, Columbus, Ohio, Efficacy and Safety Trial of Toremifene Versus Tamoxifen in Postmenopausal Patients with Metastatic Breast Cancer, Department of Internal Medicine (B. C. Behrens), 1 October 1988 through 30 September 1989. (Project 767327 - New)

\$25,320.00 - General Motors Corporation, Indianapolis, Indiana, Additions to a Model Test Program on the Gas Turbine Air Intake and Exhaust Systems for the DDG-52 Ship Service Gas Turbine Generators, Department of Aeronautical and Astronautical Engineering (R. J. Freuler), 19 January 1989 through 1 June 1989. (Project 767341 - Continuation)

\$23,808.00 - Alcoa Defense Systems, Inc., San Diego, California, Dual Frequency Radome, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 8 December 1988 through 8 March 1989. (Project 767332 - New)

\$23,000.00 - Xoma Corporation, Berkeley, California, Double-Blind, Randomized, Placebo-Controlled Group Comparative Study of the Safety and Efficacy of Xomen-E5 in Patients with Suspected Gram Negative Sepsis, Department of Internal Medicine (J. F. Plouffe), 1 March 1989 through 1 March 1990. (Project 767379 - New)

\$20,493.00 - Calreco, Inc., Van Nuys, California, Effects of Ingestion of Calcium Salts on Urine pH, Struvite Activity, and Acid-Base Status in Cats, Department of Veterinary Clinical Sciences (C. A. Buffington), 1 February 1989 through 31 January 1990. (Project 767367 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Industrial Research Contracts/Grants (contd)**

\$20,000.00 - E. I. DuPont de Nemours and Company, Wilmington, Delaware, A Phase II Multicenter Clinical Trial to Evaluate the Safety and Efficacy of a Single Weekly Schedule of Administration of Brequinar Sodium in Cancer Patients with Refractory, Department of Internal Medicine (E. H. Kraut), 1 February 1989 through 31 January 1991. (Project 767342 New)

\$15,422.00 - Navistar International Transportation Corporation, Columbus, Ohio, Winning Through Fitness, School of Health, Physical Education and Recreation (W. J. Rudman), 1 January 1989 through 31 December 1989. (Project 767298 - New)

\$3,000.00 - Charles E. Merrill Publishing Company, Columbus, Ohio, Identifying Health Education Needs on the High School Level, School of Health, Physical Education and Recreation (P. Heit and L. B. Meeks), 1 January 1989 through 30 June 1989. (Project 767339 - New)

\$1,800.00 - Medtronic, Inc., Minneapolis, Minnesota, Clinical Investigation of the Medtronic 9780 Memory MOD Software Cartridge, Department of Internal Medicine (C. J. Love), 1 October 1988 through 30 September 1989. (Project 767366 New)

\$1,000.00 - Chartwell Technologies, Inc., Columbus, Ohio, Bioequivalence Studies on Sustained Release Formulations, Department of Preventive Medicine (M. L. Moeschberger), 1 May 1988 through 31 December 1988. (Project 766893 - Continuation)

Personnel Services and Equipment - Intergraph Corporation, Reston, Virginia, Center for Commercialization of Space Membership Agreement, Center for Mapping (J. D. Bossler), 13 March 1989 through 14 March 1991. (Project 766219 - Continuation) (Approximate Dollar Value - \$581,000)

#### **TOTAL - INDUSTRIAL AWARDS**

**\$ 557,097.00**

#### **Other Non-Federal Research Contracts/Grants**

\$77,256.00 - Columbus Human Services Department, Columbus, Ohio, The Columbus Neighborhood Technical Assistance Program, Department of City and Regional Planning (S. I. Gordon), 1 January 1989 through 31 December 1989. (Project 767292 Continuation)

\$52,741.00 - Battelle Memorial Institute, Richland, Washington, A Proposal to Develop Oxidation-Resistant Niobium Alloys and Protective Coatings, Department of Materials Science and Engineering (R. A. Rapp), 9 February 1989 through 31 December 1989. (Project 767357 - New)

\$41,650.00 - Southeastern Center for Electrical Engineering Education, St. Cloud, Florida, Objective Measures of Speech Intelligibility and Quality, Department of Electrical Engineering (A. Krishnamurthy), 1 January 1989 through 30 September 1989. (Project 767390 - New)

\$39,634.00 - United Nations, Geneva, Switzerland, Evaluation of Active Immunization with Synthetic Peptides of hCG as a Fertility Control Method, Department of Obstetrics and Gynecology (V. C. Stevens), 1 July 1988 through 30 June 1989. (Project 760113 - Continuation)

\$39,592.00 - Purdue University, West Lafayette, Indiana, Inhibitors of Protein Myristoylation as Anticancer Drugs, College of Pharmacy (J. M. Cassidy), 1 January 1989 through 31 December 1989. (Project 767376 - New)

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## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$33,000.00 - March of Dimes Birth Defects Foundation, White Plains, New York, Characterization of Class 1 Heparin-Binding Growth Factor in Human Fetal Heart, Department of Internal Medicine (I. M. Chiu), 1 April 1989 through 31 March 1990. (Project 767364 - New)

\$28,500.00 - Midwest Universities Consortium for International Activities, Inc., Columbus, Ohio, Subcontract for the General Participant Training II Project in Indonesia, Office of International Affairs (D. G. McCloud), 1 April 1989 through 21 June 1989. (Project 766807 - Continuation)

\$25,981.00 - Butler County Children Services Board, Hamilton, Ohio, A Formative Evaluation of the Development of Living Skills Program, Cooperative Extension Field Operations (P. H. Simmons-Shear), 1 March 1989 through 30 June 1989. (Project 767380 - New)

\$14,000.00 - Huron County Mental Health Board, Norwalk, Ohio, Special Parenting, Cooperative Extension Field Operations (B. J. Wurzel), 1 June 1988 through 30 June 1989. (Project 767363 - New)

\$11,877.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study 8412, Department of Pathology (R. O'Toole), 25 November 1988 through 24 November 1989. (Project 765202 - Continuation)

\$10,255.00 - National Council of Soviet and East European Research, Washington, D.C., Crisis Bargaining and Risk Management, Soviet Style, Department of Political Science (M. Kaw), 1 June 1989 through 31 May 1990. (Project 767385 - New)

\$10,000.00 - The Columbus Foundation, Columbus, Ohio, Health Issues Crisis and the Black Community, Department of Black Studies (M. Marable), 1 March 1989 through 28 February 1990. (Project 767348 - New)

\$9,999.00 - Clinton County Public Schools, St. Johns, Michigan, Increasing the Effectiveness of Vocational-Technical Education in Clinton County Public Schools, Center on Education and Training for Employment (R. D. Ryan), 1 February 1989 through 30 September 1989. (Project 767336 - New)

\$7,500.00 - Jesselson Foundation, New York, New York, Yemenite Jewry: Texts, Department of Judaic and Near Eastern Languages and Literatures (R. Ahroni), 1 July 1989 through 30 June 1990. (Project 765995 - Continuation)

\$4,527.00 - Gallipolis Developmental Center, Gallipolis, Ohio, Graduate Research Associate Internship Training, Nisonger Center (S. R. Schroeder), 2 January 1989 through 31 March 1989. (Project 767170 - Continuation)

\$3,435.00 - Columbus Public Schools, Columbus, Ohio, Nepal Videodisc Project Extension, Department of Educational Policy and Leadership (M. A. Cambre), 16 February 1989 through 30 September 1989. (Project 767365 - New)

\$1,969.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Mesothelioma Pathology Subcommittee, Department of Pathology (J. G. Lucas and S. E. Tuttle), 1 January 1988 through 31 December 1988. (Project 764837 - Continuation)

May 4, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

\$1,873.00 - Ohio University, Athens, Ohio, On-Site Instruction for Vocational Agriculture Instructors in the Southeast Region, Department of Agricultural Education (L. H. Newcomb), 1 July 1988 through 30 June 1989. (Project 767080 - Continuation)

\$1,725.00 - Ohio River Basin Consortium, Columbus, Ohio, Ohio River Basin Consortium Agreement, School of Natural Resources and Department of Natural Resources - OARDC (J. F. Disinger), 1 July 1988 through 30 June 1989. (Project 765812 - Continuation)

\$1,323.00 - Miami Valley Research Institute, Kettering, Ohio, Fiscal Year 1989 Artificial Intelligence Application Screenings, Department of Chemical Engineering (J. F. Davis), 30 January 1989 through 28 February 1989. (Project 767213 - Continuation)

\$1,250.00 - Franklin County Mental Retardation and Developmental Disabilities Board, Columbus, Ohio, Early Childhood Referral Network, Nisonger Center (V. L. Reynolds), 1 November 1987 through 31 December 1988. (Project 765811 - Continuation)

\$1,100.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, The Treatment of Primary Breast Cancer, Department of Surgery (W. B. Farrar), 1 February 1988 through 31 January 1989. (Project 763659 - Continuation)

\$1,000.00 - Florida Power Corporation, Crystal River, Florida, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

\$1,000.00 - Columbus Department of Health, Columbus, Ohio, Improving the Incidence of Breastfeeding in a WIC (Women, Infants, Children) Clinic, Department of Pediatrics (L. K. Grossman), 1 January 1989 through 30 September 1989. (Project 767329 - New)

**TOTAL - OTHER NON-FEDERAL AWARDS**

**\$ 421,187.00**

### **ENGINEERING EXPERIMENT STATION**

#### **State Sponsored Research and Development**

\$35,288.00 from Ohio University, Athens, OH, for "Dry Sorbent Injection Technology for Coal Desulfurization," under the direction of the department of Chemical Engineering for the period January 1, 1989 through December 30, 1989. (529797)

\$22,612.00 in additional budget from the Ohio Coal Development Office, Columbus, OH, for "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," under the direction of the department of Chemical Engineering for the period August 1, 1988 through July 31, 1989. (529980, Ext. 1)

May 4, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **ENGINEERING EXPERIMENT STATION (contd)**

#### **State Sponsored Research and Development (contd)**

\$14,373.00 in additional budget from the Ohio Coal Development Office, Columbus, OH, for "A Novel Three Phase Fluidized Bed Process for Simultaneous Selective Flocculation and Microbial Desulfurization of High Sulfur Coal," under the direction of the department of Materials Science and Engineering for the period August 1, 1988 through July 31, 1989. (529981, Ext. 1)

**TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT** **\$72,273.00**

#### **Industrial and Other Sponsored Research and Development**

\$100,264.00 from the NCR Corporation, Cambridge OH, for "Investigation of Wrist Motions Contributing to Carpal Tunnel Syndrome Risk in the Design of Retail Scanners," under the direction of the department of Industrial and Systems Engineering for the period March 1, 1989 through February 28, 1990. (529794)

\$99,485.00 from Emerson and Cuming Corp., Canton, MA, for "Development of the Next Generation, High-Performance Broadband Absorber," under the direction of the department of Electrical Engineering for the period March 1, 1989 through February 28, 1990. (529792)

\$60,000.00 from various industry for Associate Memberships in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$48,000.00 additional budget from Westvaco Corp., Covington VA, for "Diagnostic Systems for the Warsila Roll Handling System," under the direction of the department of Chemical Engineering for the period July 1, 1987 through December 31, 1989. (312429, Ext. 2)

\$45,600.00 from Isotech, Inc., Miamisburg, OH, for "Isotopically Selective Chemical Reactions Initiated by Laser Radiation," under the direction of the department of Mechanical Engineering for the period October 1, 1988 through December 31, 1989. (529786)

\$39,492.00 from 24 sponsors of 31 development projects through three departments/research areas of the College of Engineering.

\$25,000.00 from various industry for Membership in the Engineering Research Center for Net Shape Manufacturing under the direction of the Engineering Experiment Station. (529200)

\$18,670.00 from Columbia Gas System Service Corp., Columbus, OH, for "Improved Infrared Energy Transport Techniques," under the direction of the department of Mechanical Engineering for the period February 1, 1989 through December 31, 1989. (529798)

\$18,500.00 from General Electric, Evandale, OH, for "Advanced Engine Graphical Analysis," under the direction of the department of Computer and Information Science for the period March 1, 1989 through November 30, 1989. (529793)

\$17,000.00 additional funding from Edison Welding Institute, Columbus, OH for "Hydrogen Cracking and Related Effects in Steel," under the direction of the department of Welding Engineering for the period July 1, 1988 through June 30, 1989. (529324, Ext. 1)

May 4, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industry and Other Sponsored Research and Development (contd)**

\$13,416.00 additional funding from Electric Power Research Institute, Palo Alto, CA, for "Influence of Hydrogen on PWSCC of Alloy 600 Tubing," under the direction of the department of Electrical Engineering for the period April 24, 1987 through February 28, 1989. (312412, Ext. 3)

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **\$485,427.00**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

**Establishment of Named Funds**

**The Hazael Edward Welton Endowment Fund**

The Hazael Edward Welton Endowment Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund from Hazael Edward Welton (B.S. Optometry '38), of Cleveland, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide scholarship awards to Black and Hispanic students enrolled in the College of Optometry. Scholarship awards shall be based on financial need. Recipients shall be chosen by the University Committee on Student Financial Aid, in consultation with the Dean of the College of Optometry.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Optometry, in order to carry out the desire of the donor.

**The Wendell D. and Helen R. Postle Scholarship Fund**

The Wendell D. and Helen R. Postle Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Wendell D. and Helen R. Postle Loan Fund and from additional gifts from Helen R. Postle of Columbus, Ohio, and family and friends. Dean Postle was Dean of the College of Dentistry from 1939 to his retirement in 1964. His leadership during those years was instrumental in building the College of Dentistry to its present position of leadership in dentistry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships in the College of Dentistry. Preference shall be given to students with a demonstrated financial need. Awards may also be made at the Dean's discretion to students based on academic merit. Awards shall be made in consultation with the University Committee on Student Financial Aid.

May 4, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Wendell D. and Helen R. Postle Scholarship Fund (contd)**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**Medical Director - Clinical Research Support Fund**

The Medical Director - Clinical Research Support Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Fraternal Order of Eagles, Columbus, Ohio.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for the support of clinical research projects such as heart research, cancer research, or other research activities deemed appropriate by the Medical Director of The Ohio State University Hospitals and the Dean of the College of Medicine.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**The Rho Pi Phi Scholarship Fund in Pharmacy**

The Rho Pi Phi Scholarship Fund in Pharmacy was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Cleveland Chapter of Rho Pi Phi Fraternity.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to support scholarships, student awards, or professional activities of the Rho Pi Phi Fraternity in the College of Pharmacy, as approved by the Dean of the College of Pharmacy, in consultation with the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

May 4, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Thomas Stickley International Graduate Scholarship Fund**

The Thomas Stickley International Graduate Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mary Jane Sayre Stickley (B.S.Ed. '65); Development Alternatives, Inc. of Washington, D.C.; and friends of the late S. Thomas Stickley (former 4-H Extension Agent, B.S.Agr. '56, M.S. '64, Ph.D. '68).

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to assist international students at the graduate level of study in rural finance. Preference will be given to students from Haiti and the Sahelian countries of West Africa whose major course of study is rural finance or agricultural economics. Selection of the recipient(s) shall be made by the Chairperson, Department of Agricultural Economics and Rural Sociology, in consultation with the Dean for Student Affairs in the College of Agriculture and the University Committee on Student Financial Aid. Insofar as is practical, Mary Jane Sayre Stickley (or her designee) shall be involved in the selection.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate administrative official who is then directly responsible for the College of Agriculture in order to carry out the desire of the donors.

##### **The Kenneth W. Reisch Excellence in Teaching Fund**

The Kenneth W. Reisch Excellence in Teaching Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the many friends and associates of Kenneth W. Reisch (M.S. '53, Ph.D. '56), faculty and students in the College of Agriculture, The Ohio State Floriculture/Landscape Horticulture Alumni Association, the Ohio Nurserymen's Association, and individual members of the horticulture industry.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to sponsor a lecture or symposium designed to enhance the quality of teaching among faculty in the College of Agriculture. These events will be coordinated by the office of the Associate State Dean for Resident Instruction with final approval by the Dean of the College of Agriculture.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use



May 4, 1989 meeting, Board of Trustees

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Establishment of Named Funds (contd)**

**The Kenneth W. Reisch Excellence in Teaching Fund (contd)**

shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**Mary H. and J. Churchill Hodges Endowment Fund**

The Mary H. and J. Churchill Hodges Endowment Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Mary H. and J. Churchill Hodges of Huntington, West Virginia.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for scholarships for students attending The Ohio State University who demonstrate high academic ability. Preference shall be given to an entering freshman who is a resident of counties served by the Tri State Alumni Club. The selection of the student shall be made by the Tri State (Ohio, West Virginia, and Kentucky) Alumni Club Scholarship Committee as long as such scholarship committee or its successor exists, with the approval of the University Committee on Student Financial Aid. Should the above scholarship committee cease to exist, the University shall select a student from Cabell County, West Virginia, or Lawrence County, Ohio, with preference for graduates of their public high schools. If none are available in a given year, the income for that year shall be added to the principal.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

**The Dorothy Jones Williams Memorial Scholarship Fund**

The Dorothy Jones Williams Memorial Scholarship Fund was established May 4, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from The Kentucky Housing Corporation, friends and family, and business associates of Dorothy Jones Williams (B.S.Bus.Adm. '47), of Columbus, Ohio, and Lexington, Kentucky.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide one or more scholarships to students enrolled in the College of Business with a major in accounting. Scholarship selection shall be made by the Chairperson of the Department of Accounting in coordination with the University Committee on Student Financial Aid.

May 4, 1989 meeting, Board of Trustees

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Dorothy Jones Williams Memorial Scholarship Fund (contd)**

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

#### **Change in Description of Named Fund**

##### **Arthur E. Baggs Memorial Fund**

The Arthur E. Baggs Memorial Fund was established February 14, 1961, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund in memory of Arthur E. Baggs (B.S.M.E. '39). The description was changed May 4, 1989.

All gifts are to be invested in the University's permanent endowment fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used for a scholarship to an outstanding undergraduate student with interest in pursuing a major in the ceramic arts with the equivalent of high school chemistry as a prerequisite. Suggested studies are to include investigation of basic vessel tradition of glaze chemistry, craftsmanship, and aesthetics. The selection of the recipient will be made by the University Committee on Student Financial Aid.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors. It is the donors' expressed desire to fund activities related to one of the following curricula in order of preference: industrial design, music, photography and cinema, art history.

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## **Employment of Architect/Engineer and Request for Construction Bids**

### Background

#### Equine Center

The planned addition of approximately 44,200 gross square feet on the west side of the existing Veterinary Hospital will provide a facility to house horses used in the College of Veterinary Medicine's academic programs and privately owned patient horses. A trauma/surgical unit along with space to provide intensive care for critical equine patients will be a major component of this

May 4, 1989 meeting, Board of Trustees

**Employment of Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

Equine Center (contd)

facility. Because of the value of the horses housed in the facility, special attention will be given to security, fire protection, and maintaining a high level of sanitation.

This addition will occupy most of the space between the Veterinary Hospital and Loop Road. Vehicle parking will be provided at the northwest corner of the site.

Funds for the project will be made available from University funds and private gifts, including a \$1,500,000.00 gift from the Galbreath family. Construction costs are estimated at \$4,150,000.00, and the total estimated project cost is \$5,500,000.00.

Food Facility Freezer Addition - Stores and Receiving Building

In recent years, there has been an increasing use of frozen products in food preparation, and this trend has resulted in an increased need for freezer/cooler space. The inadequacy of the Food Facility freezer space has necessitated renting space from local wholesalers, frequently creating double handling of some food items.

This project will provide adequate facilities for the Food Facility operation by modifying and adding to the existing Stores and Receiving Building on Kenny Road. The freezer portion will be an addition to the east side of the building; an addition to the northeast side of the building will serve as a storage area for products that do not need controlled temperatures; and a portion of the building will be modified to house a cooler. This location provides a single, easily accessible location for large truck delivery of items to the Columbus Campus.

The Food Facility department receives, stores, and assembles the required combinations and quantities of food items ordered by its customers. The distribution of these orders also is done by the department with its delivery vehicles. The receiving and delivery of food related items will be done by using the docks to the Stores and Receiving building. Additionally, there will be an area in the building that will be used for staging the orders that are to be delivered. This area will be close to the freezer, cooler and warehouse sections. (See Appendix XXXIV for maps, page 1191.)

**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 89-107

**EQUINE CENTER AND FOOD FACILITY FREEZER ADDITION -  
STORES AND RECEIVING BUILDING**

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Equine Center and the Food Facility Freezer Addition to the Stores and Receiving Building.

WHEREAS the Equine Center will provide an addition of approximately 44,200 gross square feet on the west side of the existing Veterinary Hospital to house horses used in the College of Veterinary Medicine's academic programs and privately owned patient horses and will include a trauma/surgical unit along with space to provide intensive care for critical equine patients; and

May 4, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEER AND  
REQUEST FOR CONSTRUCTION BIDS (contd)**

**EQUINE CENTER AND FOOD FACILITY FREEZER ADDITION -  
STORES AND RECEIVING BUILDING (contd)**

WHEREAS the total estimated cost of this project is \$5,500,000.00 with the estimated construction cost being \$4,150,000.00, with funding provided from University funds and private gifts, including a \$1,500,000.00 gift from the Galbreath family; and

WHEREAS the Food Facility Freezer Addition will provide an addition to the existing Stores and Receiving Building and modify existing space to house a cooler to provide a single, easily accessible location for large truck delivery of items to the Columbus Campus; and

WHEREAS \$1,500,000.00 will be made available from University funds for this project, with the estimated construction cost being \$1,200,000.00:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works, or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on this project in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Employment of an Architect/Engineer and  
Request for Construction Bids**

Background

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810**

Amended House Bill 810, enacted by the 117th General Assembly made capital appropriations for projects at The Ohio State University's Columbus and Regional Campuses for 1988-90 biennium. The University desires to move forward with projects authorized by House Bill 810. Those projects, totaling \$45,307,350.00, are as follows:

Line Item Projects

**BIOSCIENCE/PARKS HALL ADDITION**

An addition of approximately 115,000 gross square feet to connect Parks Hall (Pharmacy) and the Biological Sciences Building is needed to provide additional teaching and research space for both colleges. The addition will house a new combined library,

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Line Item Projects (contd)

BIOSCIENCE/PARKS HALL ADDITION (contd)

computer center, chemical instrumentation center, fermentation laboratory, new research laboratories, and faculty offices.

Estimated Construction Cost: \$17,200,000.00

Estimated Project Cost: \$21,747,750.00

DENTAL INSTRUCTIONAL LAB IMPROVEMENTS

This project will renovate and enlarge Dental instructional laboratory spaces on the first and second floors of Postle Hall to accommodate dental assistance and clinical teaching. Funding will include \$1,500,000.00 of University funds in addition to the appropriation of \$3,000,000.00.

Estimated Construction Cost: \$ 3,750,000.00

Estimated Project Cost: \$ 4,500,000.00

EVANS LAB ADDITION

This project will provide an addition of approximately 25,000 gross square feet to temporarily house Chemistry activities that will be displaced during the McPherson Laboratory renovation and provide permanent space for expanded Chemistry programs following the McPherson renovation. This project includes remodeling of contiguous areas and complicated site work.

Estimated Construction Cost: \$ 3,500,000.00

Estimated Project Cost: \$ 4,387,000.00

LIBRARY BOOK WAREHOUSE

This project will provide facilities to house a high density storage warehouse which combines filing, retrieval, and delivery services to allow economical storage of low-activity library books, boxed materials, and administrative and academic records. The building also will include space for the University Archives which is a typical library structure containing areas for collections, readers, processing, and staff activities.

Estimated Construction Cost: \$ 2,250,000.00

Estimated Project Cost: \$ 3,317,000.00

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

Line Item Projects (contd)

**NORTH STAR BUILDING ADDITION**

This project will provide a building addition of approximately 4,000 gross square feet for the Ohio Education Broadcasting Network Commission. The new space will house the Department of Programming and Traffic, Fiscal Department, Radio and Reading Services Coordinator's Office, administrative and staff offices, and conference/teleconference space.

Estimated Construction Cost: \$ 200,000.00

Estimated Project Cost: \$ 250,000.00

**SEAGRANT SCHOOL PROJECT - SOUTH BASS AND GIBRALTAR ISLANDS**

This project will provide shore line protection and erosion control for selected sites, repair and upgrade restrooms, replace roofs for two buildings, improve electrical power supply and distribution, improve water quality and distribution, and improve the islands' telecommunications systems.

Estimated Construction Cost: \$ 720,000.00

Estimated Project Cost: \$ 1,000,000.00

Basic Renovation Projects - Columbus Campus

**CLASSROOM IMPROVEMENTS**

This project will continue the University's efforts to improve the quality of general purpose classrooms and lecture halls assigned to the University's Classroom Pool. The project includes renovating, improving, and/or replacing seating, acoustics, audio/video systems, projection booths, chalkboards, ceilings, lighting, and flooring in Independence Hall Room 100, Hitchcock Hall Room 131, and Hughes Hall Room 100.

Estimated Construction Cost: \$ 474,375.00

Estimated Project Cost: \$ 575,000.00

**ROOF REPLACEMENTS**

This project will replace roofing, insulation, and flashing on the Ohio Legal Center, Stillman Hall, Arps Hall, Agricultural Administration Building, and Watts Hall.

Estimated Construction Cost: \$ 612,500.00

Estimated Project Cost: \$ 735,000.00

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Basic Renovation Projects - Columbus Campus (contd)

**MASONRY IMPROVEMENTS**

This project will renovate the damaged and deteriorated exterior masonry on Bricker Hall parapet, Botany and Zoology Building, Campbell Hall, Pomerene Hall, and Cockins Hall, and repair the interior structural concrete in Koffolt Laboratory.

Estimated Construction Cost: \$ 616,667.00

Estimated Project Cost: \$ 740,000.00

**WINDOW REPLACEMENTS**

This project will reduce energy losses and improve building comfort by replacing deteriorated window units in Page Hall, Robinson Laboratory, and Cockins Hall.

Estimated Construction Cost: \$ 337,500.00

Estimated Project Cost: \$ 405,000.00

**CAMPUS ENERGY CONTROLS (HVAC SYSTEMS)**

This project continues the work begun in previous biennia to provide better environmental control and reduce energy consumption by converting the control functions for HVAC equipment to direct digital control. Buildings identified in priority order are Baker Systems Engineering, Botany and Zoology Building, Cunz Hall, William Oxley Thompson Library, Robinson Laboratory, Campbell Hall, and University Hall.

Estimated Construction Cost: \$ 205,000.00

Estimated Project Cost: \$ 250,000.00

**ELEVATOR REPLACEMENTS**

This project will replace component parts and/or improve performance of passenger elevators in Cockins Hall, Caldwell Laboratory, Botany and Zoology Building, and Postle Hall.

Estimated Construction Cost: \$ 525,009.00

Estimated Project Cost: \$ 630,000.00

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

Basic Renovation Projects - Columbus Campus (contd)

**REFUSE FACILITY UPGRADING**

This project will improve the University's ability to handle and compact trash at a central location on campus to help control disposal costs through a more efficient operation.

Estimated Construction Cost: \$ 75,300.00

Estimated Equipment Cost: \$ 61,900.00

Estimated Project Cost: \$ 150,000.00

**MECHANICAL IMPROVEMENTS**

This project will upgrade the building environments and improve occupants' comfort by providing modifications and/or replacements of building HVAC systems in Kinnear Road Center Building A, Wiseman Hall, Dreese Laboratory, Cunz Hall, Agricultural Administration Building, Graves Hall, Evans Laboratory, Orton Hall Library, and William Oxley Thompson Library.

Estimated Construction Cost: \$ 1,191,687.00

Estimated Project Cost: \$ 1,430,000.00

**VETERINARY HOSPITAL SPRINKLER SYSTEM FOR LARGE ANIMAL WARDS**

This project will provide a fire-suppression sprinkler system to protect against fire and smoke damage to the building and occupants of the large animal wards.

Estimated Construction Cost: \$ 120,500.00

Estimated Project Cost: \$ 140,000.00

**CHILLER REPLACEMENTS**

This project will replace old absorption/centrifugal chillers with new energy efficient centrifugal units with associated piping, pumps, and electrical service in Sisson Hall, Wiseman Hall, and Civil and Aeronautical Engineering Building.

Estimated Construction Cost: \$ 400,000.00

Estimated Project Cost: \$ 480,000.00



May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

Basic Renovation Projects - Columbus Campus (contd)

**SITE RENOVATION**

This project will renovate the site bounded by Woodruff Avenue on the north, High Street on the east, College Road on the west and 17th Avenue on the south by installing plants, walls, plazas, planters, walks, lighting, and drainage systems.

Estimated Construction Cost: \$ 235,600.00

Estimated Project Cost: \$ 250,000.00

**BRIDGE AND STREET IMPROVEMENTS**

This project will close 17th Avenue and convert it to a pedestrian mall; replace existing concrete walks on High Street from Woodruff to West 11th Avenue, including relocation of bus shelters and installation of new plantings and site furniture; rebuild existing deteriorated Fyffe Road from Lane Avenue to Buckeye Village; repair concrete curbs, walks, and walls and add a waterproofing membrane on the Woody Hayes Drive bridge over Olentangy River and Olentangy River Road; replace West Campus pedestrian bridges, which have deteriorated due to water penetration and salt damage, with prefabricated steel structures; and repair and resurface approximately 4,800 square yards of asphalt paving on the Fawcett Center for Tomorrow Loop Road from Olentangy River Road to Argyll Street.

Estimated Construction Cost: \$ 950,000.00

Estimated Project Cost \$ 1,050,000.00

Basic Renovation Projects - Regional Campuses

**MANSFIELD - FOUNDERS AUDITORIUM RENOVATION**

This project will extensively renovate the multipurpose Founders Auditorium. The renovation includes repair and re-upholstery of 400 seats, painting the floor, stage walls, and light booth, carpeting the aisles, and construction of a box office in the lobby.

Estimated Construction Cost: \$ 95,000.00

Estimated Project Cost: \$ 100,000.00

**MANSFIELD - UTILITY IMPROVEMENTS**

This project will install computerized controls for HVAC systems in Ovalwood and Bromfield Halls. The controls will enable the HVAC systems to be turned on and off automatically at preset times and provide for manual operation when needed at specific times.

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

Basic Renovation Projects - Regional Campuses (contd)

**MANSFIELD - UTILITY IMPROVEMENTS (contd)**

Estimated Construction Cost: \$ 45,000.00

Estimated Project Cost: \$ 53,000.00

**MANSFIELD - ROADWAY AND PARKING LOT REPAIRS**

This project will resurface the west entrance drive and parking lot.

Estimated Construction Cost: \$ 91,000.00

Estimated Project Cost: \$ 107,000.00

**LIMA - ROOF AND MASONRY REPAIRS**

This project will replace the roof, flashing, and deteriorated mortar joints to the J. McLean Reed Student Activities Building and Galvin Hall.

Estimated Construction Cost: \$ 155,000.00

Estimated Project Cost: \$ 170,000.00

**LIMA - PARKING LOT LIGHTING UPGRADE**

This project will retrofit 11 parking lot light fixtures on existing poles and rewire circuits that control these fixtures on three separate campus parking lots.

Estimated Construction Cost: \$ 43,000.00

Estimated Project Cost: \$ 51,600.00

**NEWARK - GROUNDS IMPROVEMENTS**

This project will construct an access road from the southeast corner of the campus to the existing University Drive and replace an existing diversion ditch with underground drainage. Construction of two lakes, an outdoor amphitheater south of Adena Hall, and a pedestrian footbridge to provide access to the 19 acre recreation area on Sharon Valley Road also will be accomplished if additional funding becomes available.

Estimated Construction Cost: \$ 420,000.00

Estimated Project Cost: \$ 500,000.00

May 4, 1989 meeting, Board of Trustees

### Employment of an Architect/Engineer and Request for Construction Bids (contd)

## Background (contd)

## PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

### Supplemental Renovation Projects

## HAGERTY HALL, ROOM 100

This project will continue the University's efforts to improve the quality of general purpose classrooms and lecture halls assigned to the University's Classroom Pool. The project includes renovating, improving, and/or replacing seating, acoustics, audio/video systems, projection booths, chalkboards, ceilings, lighting, and flooring in Hagerty Hall Room 100.

Estimated Construction Cost: \$ 288,750.00

Estimated Project Cost: \$ 350,000.00

CAMPBELL HALL

This project is the second phase of a project to remodel and renovate a series of existing teaching and research laboratories used by the College of Home Economics in Campbell Hall.

**Estimated Construction Cost:** \$ 333,915.00

Estimated Project Cost: \$ 394,000.00

## MACQUIGG LABORATORY

This project will replace a 22 year old chiller with a new energy efficient centrifugal unit serving MacQuigg Laboratory.

Estimated Construction Cost: \$ 308,333.50

Estimated Project Cost: \$ 370,000.00

## BROWN HALL ROOF REPLACEMENT

This project will replace roofing, metal flashing, and down spouting on Brown Hall.

**Estimated Construction Cost:** \$ 312,500.00

Estimated Project Cost: \$ 375,000.00

## MCPHERSON LABORATORY ROOF REPLACEMENT

This project will replace roofing, metal flashing, and down spouting on McPherson Laboratory.

May 4, 1989 meeting, Board of Trustees

**Employment of an Architect/Engineer and  
Request for Construction Bids (contd)**

Background (contd)

PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)

Supplemental Renovation Projects (contd)

MCPHERSON LABORATORY ROOF REPLACEMENT (contd)

Estimated Construction Cost: \$ 250,000.00

Estimated Project Cost: \$ 300,000.00

SULLIVANT HALL RENOVATION, PHASE II

This phase of the Sullivant Hall renovation will replace the roof and elevator, modify air supply systems, and replace air terminal boxes.

Estimated Construction Cost: \$ 425,000.00

Estimated Project Cost: \$ 500,000.00

(See Appendix XXXXV for maps, page 1195.)

**EMPLOYMENT OF ARCHITECT/ENGINEERS AND  
REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 89-108

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for certain capital projects for which funds were appropriated in Amended House Bill 810.

WHEREAS Amended House Bill 810, enacted by the 117th General Assembly, appropriated funds for the 1988-90 biennium for capital projects at The Ohio State University's Columbus and Regional Campuses; and

WHEREAS the following University projects are planned from funds appropriated in Amended House Bill 810:

LINE ITEM PROJECTS

Bioscience/Parks Hall Addition	\$21,747,750
Dental Instructional Lab Improvements	4,500,000
Evans Lab Addition	4,387,000
Library Book Warehouse	3,317,000
North Star Building Addition	250,000
Seagrants School Projects - South Bass and Gibraltar Islands	1,000,000

May 4, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEERS AND  
REQUEST FOR CONSTRUCTION BIDS (contd)**

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

**BASIC RENOVATION PROJECTS - COLUMBUS CAMPUS**

Classroom Improvements	\$ 575,000
Roof Replacements	735,000
Masonry Improvements	740,000
Window Replacements	405,000
Campus Energy Controls (HVAC Systems)	250,000
Elevator Replacements	630,000
Refuse Facility Upgrading	150,000
Mechanical Improvements	1,430,000
Veterinary Hospital Sprinkler System for Large Animal Wards	140,000
Chiller Replacements	480,000
Site Renovation	250,000
Bridge and Street Improvements	1,050,000

**BASIC RENOVATION PROJECTS - REGIONAL CAMPUSES**

Mansfield - Founders Auditorium Renovation	\$ 100,000
Mansfield - Utility Improvements	53,000
Mansfield - Road and Parking Lot Repairs	107,000
Lima - Roof and Masonry Repairs	170,000
Lima - Parking Lot Lighting Upgrade	51,600
Newark - Grounds Improvements	500,000

**SUPPLEMENTAL RENOVATION PROJECTS**

Hagerty Hall, Room 100	\$ 350,000
Campbell Hall	394,000
MacQuigg Laboratory	370,000
Brown Hall Roof Replacement	375,000
McPherson Lab Roof Replacement	300,000
Sullivant Hall Renovation, Phase II	500,000

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works, or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.

May 4, 1989 meeting, Board of Trustees

**EMPLOYMENT OF ARCHITECT/ENGINEERS AND  
REQUEST FOR CONSTRUCTION BIDS (contd)**

**PROJECTS FUNDED BY AMENDED HOUSE BILL 810 (contd)**

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Report of Award of Contracts and  
Establishment of Contingency Funds**

Background

(See Appendix XXXXVI for a complete tabulation of bids on all projects and locator maps, page 1219). Amounts shown with an \* include accepted alternates.)

Hamilton Hall Renovation

This project provides for the complete renovation of Hamilton Hall including the Anatomy Morgue, solvent and equipment storage areas, Gross Anatomy labs, lecture halls, Physiology suite, and research labs and offices for Physiology and Physiological Chemistry. The total project cost is \$16,936,400.00; funding is provided from State capital appropriations (House Bill 552, Senate Bill 386, and House Bill 810) and University funds. The estimated completion date is July 1991. Contracts awarded are as follows:

General Contract:	Frank Messer & Sons, Cincinnati, Ohio
Amount:	\$4,915,000.00 *
Estimate:	\$6,769,109.00 *
Fire Protection Contract:	Franklin Fire Sprinkler Co., Columbus, Ohio
Amount:	\$171,436.00
Estimate:	\$173,670.00
Plumbing Contract:	J. A. Croson Co., Columbus, Ohio
Amount:	\$1,526,900.00 *+
Estimate:	\$1,177,904.00 *
HVAC Contract:	J. A. Croson Co., Columbus, Ohio
Amount:	\$3,310,900.00 *
Estimate:	\$4,140,565.00 *

+Plumbing Contract is in excess of filed estimate of cost; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

May 4, 1989 meeting, Board of Trustees

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Hamilton Hall Renovation (contd)

Electric Contract:	Royal Electric Construction, Columbus, Ohio
Amount:	\$1,249,620.00 *
Estimate:	\$1,776,325.00 *
Finishes Contract:	Willima Cargile Contractor, Cincinnati, Ohio
Amount:	\$1,490,000.00 *
Estimate:	\$1,659,562.00 *
Total All Contracts:	\$12,663,856.00 *
Contingency Allowance:	\$1,139,748.39 (9% of construction cost)
Total Project Cost:	\$16,936,400.00

Postle Hall Oral Biology Laboratory

This project provides for the remodeling of a series of research laboratories used by the Section of Oral Biology in the College of Dentistry located on the fourth floor of Postle Hall. The total project cost is \$409,000.00; funding is provided from State capital appropriations (Senate Bill 386) and University funds. The estimated completion date is September 1989. Contracts awarded are as follows:

General Contract:	Ed Ross Construction, Westerville, Ohio
Amount:	\$146,045.00 *
Estimate:	\$177,000.00 *
Plumbing Contract:	Marco Plumbing, Columbus, Ohio
Amount:	\$ 18,370.00
Estimate:	\$ 15,000.00
HVAC Contract:	J. A. Guy, Dublin, Ohio
Amount:	\$122,300.00
Estimate:	\$115,000.00

May 4, 1989 meeting, Board of Trustees

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Postle Hall Oral Biology Laboratory (contd)

Electric Contract:	Frush & Homan, Columbus, Ohio
Amount:	\$ 36,701.00
Estimate:	\$ 37,000.00
Total All Contracts:	\$323,496.00
Contingency Allowance:	\$ 25,477.84 (7.9% of construction cost)
Total Project Cost:	\$409,000.00

St. John Arena - Roof Replacement

This project will replace the original, extremely deteriorated roof on St. John Arena with a new roofing system. The total project cost is \$824,950.00; funding is provided by the Department of Athletics. The estimated completion date is October 1989. The contract awarded is as follows:

General Contract:	Mid American Roof, Perrysburg, Ohio
Amount:	\$629,770.00
Estimate:	\$850,000.00
Total All Contracts:	\$629,770.00
Contingency Allowance:	\$ 50,411.00 (8% of construction cost)

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 89-109

**HAMILTON HALL RENOVATION  
POSTLE HALL ORAL BIOLOGY LABORATORY  
ST. JOHN ARENA - ROOF REPLACEMENT**

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on July 10, 1981, and July 11, 1986, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of



May 4, 1989 meeting, Board of Trustees

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS (contd)**

**HAMILTON HALL RENOVATION  
POSTLE HALL ORAL BIOLOGY LABORATORY  
ST. JOHN ARENA - ROOF REPLACEMENT (contd)**

contracts for the following projects: Hamilton Hall Renovation and Postle Hall Oral Biology Laboratory; and

WHEREAS a resolution adopted by the Board of Trustees on May 5, 1988, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following project: St. John Arena - Roof Replacement:

NOW THEREFORE

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Hamilton Hall Renovation, Postle Hall Oral Biology Laboratory, and St. John Arena - Roof Replacements projects is hereby accepted.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**Sale of Real Property  
760 Beautyview Court, Columbus, OH**

Background

Location and Description

The property consists of approximately 0.23 acres of improved real property located at 760 Beautyview Court in northwest Columbus. The property is located off Olentangy River Road approximately four miles from the University's Columbus Campus. There is a brick and stucco ranch house (approximately 1,688 square feet) with basement (300 square feet of finished space) and attached garage. The house and grounds have been well maintained and are in excellent condition.

Gift of the Property

The property previously was owned by Dr. Francis B. McCormick, Professor Emeritus of Agricultural Economics. He died in February 1986, and in his Will, Professor McCormick devised this property and a condominium in Florida to the University, subject to a life estate in both properties to his widow, Marie Orton McCormick. His Will also bequeathed to the University the net proceeds of a life insurance policy, again subject to a life interest through a charitable remainder annuity trust to benefit Mrs. McCormick.

The University and Mrs. McCormick negotiated a settlement of the parties' respective interests in the estate. Under that settlement, the University received fee simple title to the Columbus property and the net proceeds of the insurance policy after payment of taxes and legal fees. That net amount was approximately \$45,000.00. The Board of Trustees accepted this gift in July 1988, and title to the Columbus property was transferred later that same month.

May 4, 1989 meeting, Board of Trustees

**Sale of Real Property  
760 Beautyview Court, Columbus, OH (contd)**

Background (contd)

Appraisal and Offer

An MAI appraisal done by HER Appraisal Services in September 1988, valued the property at \$100,000.00.

Joyce Ashbaugh of Columbus, Ohio, has offered to purchase the property for \$114,500.00.

Use of the Proceeds from the Sale

Under the terms of Professor McCormick's Will, the net proceeds from the sale of the property and the life insurance policy will be used to establish the Francis B. McCormick Professorship in Agricultural Economics. If sufficient funds are not accumulated to fund the Professorship, the proceeds will be used to support the existing McCormick Undergraduate Scholarship in Agricultural Economics. (See Appendix XXXXVII for map on Sale of Real Property at 760 Beautyview Court, Columbus, Ohio, page 1229.)

**SALE OF REAL PROPERTY  
760 BEAUTYVIEW COURT, COLUMBUS, OHIO**

Resolution No. 89-110

Synopsis: The Fiscal Affairs Committee recommended the sale of real property at 760 Beautyview Court in Columbus, Ohio

WHEREAS in July 1988, the Board of Trustees of The Ohio State University acquired by gift from the Estate of Francis B. McCormick, Professor Emeritus of Agricultural Economics, the property located at 760 Beautyview Court in Columbus, Ohio; and

WHEREAS under the terms of Professor McCormick's Will, the property is to be sold and the net proceeds used to establish the Francis B. McCormick Professorship in Agricultural Economics or to support the existing McCormick Undergraduate Scholarship in Agricultural Economics; and

WHEREAS Joyce Ashbaugh of Columbus, Ohio, has offered to purchase this property for \$114,500.00; and

WHEREAS the appropriate University offices have determined that this sale of the property is in the best interest of the University, and it is the desire of this Board to accept the offer of Joyce Ashbaugh and to sell all of the Board's right, title, and interest in and to this property:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees of The Ohio State University, to sell all of the University's right, title, and interest in and to this property to Joyce Ashbaugh at a price of \$114,500.00 upon such terms and conditions as are deemed to be in the best interest of the University.

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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May 4, 1989 meeting, Board of Trustees

**Purchase of Real Property  
Cranston Center  
1501 Neil Avenue, Et Al., Columbus, Ohio**

Background

Location and Description

The property consists of three parcels, totaling approximately 1.9 acres, located at the southwest corner of the intersection of Neil Avenue and West Eighth Avenue, just south of the University's Columbus Campus.

The first parcel (approximately 0.7 acre), located at 1501 Neil Avenue, has a three-story office building of brick and solar glass over steel frame construction. The building, constructed in 1974, has approximately 17,200 usable square feet and is in good condition. The parcel is zoned "C-2" for commercial office use.

The second parcel (approximately 0.6 acre), located at 1478 Pennsylvania Avenue, is just west of the first parcel on the other side of an alley. It consists of a one and two story brick building, constructed in 1974, in good condition; the building has 15 efficiency apartment units. This parcel also is zoned "C-2."

The third parcel (approximately 0.6 acre) is a parking lot located on the west side of Pennsylvania Avenue opposite the 1478 address. The lot is zoned "P-1" for private parking and has approximately 65 spaces. (There are an additional 25-30 parking spaces on the other two parcels as well.)

The properties have been owned by Cranston Center, Ltd. Recently, Trustcorp Bank, Ohio, the holder of a mortgage note, has begun negotiations with Cranston Center, Ltd. to acquire ownership of the properties. Trustcorp took possession of the properties in April 1989. The properties are now vacant.

Appraisals and Purchase Price

An MAI appraisal done by James R. Horner & Associates in June 1988, valued the property at \$1,750,000.00. Another MAI appraisal by The Robert Weiler Company done in May 1988, valued the property at \$1,650,000.00. An MAI review appraisal in December 1988, by Daniel Billingsley of the Huntington Mortgage Company also placed the value of the property at \$1,750,000.00.

For some time the University has been negotiating with Cranston Center, Ltd., and now with Trustcorp for the purchase of the property, and Trustcorp has agreed to a purchase price of \$1,750,000.00.

Funds for the purchase will come from a \$3,000,000.00 appropriation to the University in Amended House Bill 810, enacted by the 117th General Assembly. That appropriation specifically is for the purchase and renovation of the property, and the remainder of the appropriated funds will be used for necessary renovation work.

Use of the Property

The property will be used to house the Mershon Center, which now occupies space in Oxley Hall and two buildings on West Tenth Avenue, and other academic and support programs. (See Appendix XXXXVIII for map on Purchase of Real Property at Cranston Center, Columbus, Ohio, page 1231.)

May 4, 1989 meeting, Board of Trustees

**PURCHASE OF REAL PROPERTY  
CRANSTON CENTER  
1501 NEIL AVENUE, ET AL., COLUMBUS, OHIO**

Resolution No. 89-111

Synopsis: The Fiscal Affairs Committee recommended the purchase of the Cranston Center in Columbus, Ohio.

WHEREAS The Ohio State University desires to acquire approximately 1.9 acres of improved real property in Columbus, Ohio, which property consists of three separate parcels located at 1501 Neil Avenue, 1478 Pennsylvania Avenue, and a parking lot on the west side of Pennsylvania Avenue opposite the 1478 address, all collectively known as the Cranston Center; and

WHEREAS Amended House Bill 810, enacted by the 117th General Assembly, appropriated \$3,000,000.00 to the University for the purchase and renovation of this property; and

WHEREAS this property has an appraised value of \$1,750,000.00, and the appropriate University offices have determined that the purchase of this property at a price not to exceed the appraised value is in the best interest of the University;

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to purchase, in the name of the State of Ohio for the use of The Ohio State University, the property known as the Cranston Center, consisting of the three parcels described above, at a price not to exceed \$1,750,000.00 and upon such terms and conditions as are deemed to be in the best interest of the University, subject to the University receiving the necessary approvals from the Ohio Board of Regents and the State Controlling Board.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY**

Resolution No. 89-112

Synopsis: The Fiscal Affairs Committee recommended the renewal of an underground electric cable and substation easement to Columbus Southern Power Company.

WHEREAS in 1973 the University granted Columbus Southern Power Company a 15-year easement consisting of strips of land, one being 25 feet in wide and 2,000 feet in length and the other being 10 feet in width and 400 feet in length, for installation of underground conduit lines, and an approximately 0.75 acre tract of land for an electric substation on property located near King Avenue and along the east side of the Olentangy River; and

WHEREAS this easement has expired and Columbus Southern Power Company has requested a renewal of the easement for a period of 15 years; and

WHEREAS this easement serves University property; and

May 4, 1989 meeting, Board of Trustees

**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY (contd)**

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Berry, seconded by Mr. Immke, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appedix XXXXVIII for map of Columbus Southern Power Company Easement Renewal, page 1233.)

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**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY**

Resolution No. 89-113

Synopsis: The Fiscal Affairs committee recommended the renewal of an underground electric cable easement to Columbus Southern Power Company at The Ohio State University Golf Course.

WHEREAS in 1974 the University granted Columbus Southern Power Company a 15-year easement consisting of two strips of land, one being 10 feet in width and 40 feet in length and the other being 5 feet in width and 20 feet in length for underground electric cables at The Ohio State University Golf Course at Kenny and McCoy Roads; and

WHEREAS this easement has expired, and Columbus Southern Power Company has requested a renewal of the for a period of 15 years; and

WHEREAS this easement serves private property and Columbus Southern Power Company agrees to compensate the University with a lump sum payment of \$500.00 in consideration of the granting of this easement; and

WHEREAS the appropriate University offices have recommended the renewal of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

May 4, 1989 meeting, Board of Trustees

**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY (contd)**

(See Appendix L for map of the Columbus Southern Power Company Easement Renewal at The Ohio State University Golf Course, page 1235.)

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**EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY**

Resolution No. 89-114

Synopsis: The Fiscal Affairs Committee recommended the authorization to grant an electric line easement to Columbus Southern Power Company.

WHEREAS the Columbus Southern Power Company has requested a 15-year easement consisting of strips of land 20 feet wide and approximately 1,600 feet in length for the installation of electric service to the Piketon Agricultural Research and Extension Center located in Pike County, Ohio, and operated by the Ohio Agricultural Research and Development Center; and

WHEREAS the easement will serve University property; and

WHEREAS the appropriate University offices have recommended the approval of this easement:

NOW THEREFORE

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request the Deputy Director of Public Works of the Department of Administrative Services, pursuant to his statutory duties, to act for and on behalf of the University in developing the necessary legal instruments to provide for this easement

Upon motion of Mr. Berry, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LI for map of the Columbus Southern Power Company Easement at the Piketon Agricultural Research and Extension Center, Pike County, Ohio, page 1237.)

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Mr. Scott:

I would like to introduce this presentation covering the health care crisis in our society and, more importantly, how that problem impacts The Ohio State University. First, I believe it would be helpful to sketch out for you what a great many people perceive as conditions threatening the nation's health care system. Several forces have shaped our health care system over time, including provider interest, patient interest, utilization, new and exotic technology, costly government mandates and litigation to suggest only a few. Given these forces it really should not come as a surprise that The Ohio State University, like Chrysler, GM, Ford, and other industries, is now confronted with the major challenge of finding ways to trim costs in health care without diminishing the quality of its health care benefits.

May 4, 1989 meeting, Board of Trustees

Mr. Scott: (contd)

According to a study that was published by the Wyatt Company, health care costs in America will have increased 1000 per cent between 1970 and 1990. Further it is noted that 11 per cent of our Gross National Product is consumed by health care costs. Translated into dollars, that is roughly \$550 billion. Notwithstanding these staggering costs, some experts have noted that approximately 37 million Americans do not have health care insurance. Nonetheless, employers such as Ohio State and others are shouldering a major portion of the burden through health care insurance provided for staff and faculty in this instance.

What is causing the dramatic increase? The Wyatt article noted that the explanation can be found in part in the general complexities and changes in American society in the 1980's. They noted particularly that we are a "graying society." It was also noted that the advance of expensive modern technology, increased utilization, the AIDS crisis, mental health and substance abuse treatments all contribute to what some people perceive as a hemorrhaging in the health care industry.

I think you will recall that last year about this time we talked about our benefits and we also indicated that we would want to have a study committee appointed to look at where we were and what suggested approaches the University might undertake to stem, at that point in time, what we perceived to be a continuing unabated escalation in our health care premium costs. A committee of University faculty and staff was appointed in late May of last year with the charge to examine all aspects of our health care benefits program. This committee worked throughout the spring, summer and fall, and early this year a report was submitted to the Office of Personnel Services. This report was then distributed to the 15,000 members of the University community. And, in addition, we held three Forums for individual faculty and staff to comment on the various recommendations cited in that report. We asked the various governance committees -- the Faculty Compensation and Benefits Committee, the Fiscal Committee, Staff Advisory Committee, the University's Alternative Health Committee -- to critique the recommendations. We employed a consultant to work with us in trying to fashion recommendations that we could present to President Jennings and ultimately to this Board for review and consideration.

I think that we recognized from the very beginning that Ohio State really was just a part of a larger group of employers looking at this very serious problem. It was our considered judgment that irrespective of what we proposed by way of modifications, changes, and improvements, it was just the tip of the iceberg. We do not believe at the moment that there are any ultimate solutions on the horizon. There are many things that drive health care costs. As I noted earlier, utilization is one of the big cost items. But I should also tell you, and digress momentarily, that we have at Ohio State a truly magnificent health care program.

In 1971 this program was launched as a result of a study that was commissioned by the Board of Trustees to have the Alexander & Alexander Company provide a series of recommendations to initiate the modern day health care program for Ohio State. For example, in 1971 our surgical schedule was just \$300.00. We moved from \$300 to \$450 in 1972. In 1976 we moved that surgical schedule from \$450 to \$800. In 1971 our major medical was roughly \$10,000 and in 1973 we moved that from \$25,000 to \$50,000. During those periods of time we never had a claim up to \$50,000, nor did we have one at \$25,000. It is reported today, for example, that a bypass procedure that cost \$18,000 ten years ago, now will cost you almost \$40,000, and on and on and on. Our upper limit in terms of our major medical as I

May 4, 1989 meeting, Board of Trustees

Mr. Scott: (contd)

noted in 1973 was increased from \$25,000 to \$50,000. Now we are at one half million dollars. Given what is predicted in terms of certain of the costs associated with the transplants, AIDS, and a number of the very critical and difficult to cure diseases, it is not unreasonable to expect that we will see in the range of \$100,000 for one individual's health care bill. I would not be surprised to find that we have already reported some of those.

So in an attempt to get at the problem, while maintaining the quality of the program, we have enlisted the support of the faculty and staff and have asked them to share their ideas with us. We have come up with a series of recommendations that we would like to present to the Board that hopefully, for the time being, will address the problem on our campus. Let me just say that we have been especially sensitive to the concerns of all people on our campus about fairness and about equity. We were particularly concerned about the idea of change. Change always brings about anxiety and concern. There is really no easy way to communicate change or the need for change.

The recommendations that I will ask Steve Stoffel to give you in a moment are really not inconsistent with what almost every university in the country has already done. Ohio State is lagging. Several weeks ago we were at a major conference on health care in Boston. Some of the things we were talking about were discussed by people such as Ford Motor Company, the Bell Systems people, and all of the major industries. They are already in the process of doing what we are doing. All the Big Ten universities have already done it. So in sum and substance, the recommendations that we are going to present to the Board for its consideration I believe represent the best possible thinking that we can bring to bear on this question. As I have indicated, we not only distributed 15,000 copies of the original report, but I personally monitored and more specifically tried to respond during the three major forums to each and every question presented by the various groups. The final recommendations were reviewed and critiqued by the chairpersons of each of the major committees, and following that we submitted those recommendations to the President for his consideration and review. At this time, I would like ask Steve to briefly sketch out those recommendations. I believe we forwarded the entire package to all of you in your Board book. You should find that information under the Tab Benefits.

Mr. Steve Stoffel:

Thank you, Mr. Scott. I will not read through the recommendations but try to go through them quickly and summarize them as I can.

The first recommendation is that effective July 1, 1989, faculty and staff contributions should be instituted for medical coverage under both of our programs - the traditional health program and the University's Alternative Health Plan (our preferred provider program). Specifically, beginning with the fiscal year 1989-90, it is recommended that faculty and staff share in the premium costs to a level of 15 per cent. It is further recommended that for the following two years that the percentage be increased 3 per cent per year, and then in 1992-93 it be increased by 4 per cent. So in that year, the total will be 25 per cent of the applicable premiums. Finally, that recommendation states that a three tier rate structure be established. Currently we have a single coverage rate structure and a family coverage rate structure. We are recommending that three rate structures be established: one for single coverage, one for a two-person rate, and one for a family rate.



May 4, 1989 meeting, Board of Trustees

Mr. Stoffel: (contd)

The second recommendation is to establish premium cost sharing for part-time faculty and staff at the University. Currently part-time faculty and staff receive the same benefit as full-time employees -- 100 per cent payment. Consistent with what is happening with other industries and institutions, it is recommended that part-time individuals share in the cost of that premium on a pro rata basis of their appointment. In other words, someone who is appointed on a 60 per cent basis would pay for 40 per cent of the appropriate insurance premium depending on their enrollment -- single, two-person, or family. There is a chart which details how that works.

The third recommendation is to increase the deductible in the traditional plan and the out-of-network services in the University's Alternative Health Plan from \$100 to \$150. We have had the \$100 deductible now for a number of years. It has not been adjusted with inflation and, in order to make the plans consistent and to adjust for inflation, that is being recommended.

The fourth recommendation is to establish a co-payment for prescription drugs. Currently in the University's Alternative Health Plan, the PPO, there is no co-payment for prescription drugs when those drugs are obtained at a preferred facility -- the University's Hospitals Clinic or the Student Health Center. In order to add some cost effectiveness, we are asking that that be 20 per cent for non-generic drugs and the co-payment be 10 per cent for generic drugs. In order then to still make it appealing for individuals to use in-network facilities then, we are asking that the \$150 deductible apply only to out-of-network purchases, which now does not apply. The co-payment would be the same in both programs, except for the deductible.

The fifth recommendation is to increase the co-payment for the University's Alternative Health Plan office visits from \$5 to \$10. The \$5 was established at the inception of this program back in 1985. It has not been changed and of course inflation has taken that up. We think that a \$10 co-payment is much more reflective of costs today.

The sixth recommendation is to establish a salary reduction arrangement to permit faculty and staff to pay these contributions to the medical plan with pre-tax dollars. What this amounts to is establishing a form that individuals sign that says they are getting into a salary reduction arrangement with the University. The appropriate premiums that they now pay for medical coverage and now currently pay for dental and vision coverage can be done on a pre-tax basis rather than an after-tax basis. The second item in that recommendation is that by January 1, 1990, we are recommending that the University establish flexible spending accounts where individuals can determine amounts of money that they wish to put in these flexible spending accounts. One would be for medical type coverages and one would be for dependent child care services. Individuals can place pre-tax dollars in those accounts, pay for appropriate services in each one of these areas, and ask for reimbursement from these accounts with pre-tax dollars.

The seventh recommendation is to provide a \$25 monthly credit to the flexible spending accounts when they are established for faculty and staff members who waive their individual medical coverage because they have alternative coverage. In other words, if individuals have spouses who work in other places and there is alternative coverage available for them and they wish to waive their entire coverage here at the University, then a \$25 monthly credit would be applied to a flexible

May 4, 1989 meeting, Board of Trustees

Mr. Stoffel: (contd)

spending account that they could use to pay for deductibles and other types of co-payments and services that are provided but not covered under their benefit plan.

The eighth recommendation is that the University consider establishing a low cost medical option. It would be an option where the premium sharing would be appropriate to the level of benefits in that option. The program would have high deductibles -- \$300 - \$400 per individual deductible -- and it would have higher out-of-pocket costs than the other two plans -- \$1,500 or \$3,000. An individual who feels that they do not want to contribute the higher amount of the premium cost sharing under the traditional or UAHP program could opt for a lower benefit program with higher deductibles. So basically, they end up paying when they go to the physician, instead of paying the premium in advance.

The ninth recommendation is that the University should study the feasibility of restructuring the administration of the various health plans. A number of recommendations were made by the various committees, as Mr. Scott said, which reviewed these programs. It is felt that some consolidation -- possibly instead of having three different administrators for the plans, moving to one administrator; making the traditional program looking exactly like the out-of-network UAHP plan; and trying to streamline some of those things and save dollars on administration costs where possible.

The tenth recommendation is to establish a long-term care insurance program with group rates at the University effective January 1, 1990. Individuals can enroll in this long-term care insurance at the individual faculty and staff members cost. This is a benefit that is new and one that many people are interested in.

The eleventh recommendation is to institute some co-payments not later than January 1, 1990, for lab tests, x-rays and other services on an out-patient basis. It is recommended that the level be 20 per cent. One of the higher cost items that we find in our program and in any insurance program now is the cost of lab tests, x-rays and all those out-of-hospital expenses. This would help individuals recognize what those tests cost.

The twelfth recommendation is to make some modifications in the mental health benefit. Currently the University's in-hospital, in-network benefit is that the first \$550 is paid in full. Thereafter, it is an 80 per cent benefit -- there is a 20 per cent co-payment -- and then there are some maximum out-of-pocket costs -- \$750 in the University's Alternative Health Program. Again, this is for in-hospital mental health benefits. The maximum coverage is \$100,000. What this recommendation says is that we propose to eliminate the first dollar coverage -- the first \$550 -- and make it a 20 per cent co-payment instead of covering the first dollar costs, which is consistent with what is happening in other plans. The maximum out-of-pocket cost would still be \$750 and the \$100,000 limit would still apply.

In the out-of-network, in-patient benefits then, which are currently 80 per cent, we are recommending that those be 70 per cent -- again to provide an incentive for those individuals to use in-network facilities versus out-of-network facilities.

On an out-patient basis, we are recommending that a per year limit be established. Currently there is a \$25,000 limit, and we are recommending that this benefit be limited to \$2,000 per year, but not change the total limit of \$25,000. Physicians and psychiatrists in the area have told us that this should be adequate to cover normal

May 4, 1989 meeting, Board of Trustees

Mr. Stoffel: (contd)

treatment for someone during a year's period of time. It would cover about 36 office visits. Everyone is saying that that would be about the normal number of office visits an individual would have under constant treatment for a year's period of time. The \$2,000 limit of course is set to establish some kind of a ceiling that would not allow for over-utilization in those areas.

The final recommendation then is to change the name of the University's Alternative Health Plan, which again was established in 1985, and was indeed established to be an alternative. The original estimate was for 3,000 faculty and staff to be enrolled in that program. We currently have over 10,000 people enrolled of the 15,000 at the University. So, it is no longer the University's Alternative Health Plan, but really the most significant plan we have. We are recommending that that be renamed The Ohio State University Faculty and Staff Health Plan.

Mr. Scott:

At the back of the report there are three charts and I would just like to comment briefly on those charts. The first one is a summary of the proposed changes. This summary does sketch out what we have just covered. The second chart will give you the proposed cost sharing based on the estimated premiums for the next several years. And calculating at 15 per cent, that we have proposed here, this chart shows you the rate in that second set of numbers there. The final chart gives you just a little historic trend of how this explosion has occurred.

I should say that we have in the University had a feeling for some time that the health care situation really needed some repair. As you know, by virtue of the fact that we were in a traditional plan, for many, many years we maintained a reserve to take care of what is called the claims lag or the claims run-off. For example, for an office visit in say October or November, you don't get the claim until maybe March, April, or May of the next year. Then there was always the possibility that we were going to change carriers and so as a statutory requirement, or at least an industry requirement, you always had to have some reserve. So we had that reserve and indeed after 45 years, several years ago we decided to leave John Hancock. Yet, in leaving John Hancock, by virtue of the fact that our claim reserve had been utilized to cover the expenses over time -- I think the President mentioned this last year in his budget presentation -- that reserve for all practical purposes disappeared. There is some argument that you don't need much of a reserve in light of the fact that the University is its own insurance company. Nonetheless, we think that we should have some because there is, as we can see in the future, no indication that the escalation in health care benefits will subside.

I would like to talk specifically about two things Steve mentioned. Recommendation number six, which has to do with the establishment of a salary reduction agreement. We indicated in the document that we would try to do that effective January 1, 1990. President Jennings has asked that we speed up that process and cut that by six months so that we can possibly implement that by July 1, 1989.

Mr. Teaford:

Good Luck.

May 4, 1989 meeting, Board of Trustees

Mr. Scott:

It is going to be difficult, but that's what the President wants and that's what the President will get. We anticipate having the salary reduction agreement effective July 1, 1989. The other recommendation, number eight, I want to be sure we understand what lies ahead for us here. That has to do with the low cost medical plan. It is estimated that we have 5,000 people in the campus community that are single. That is not hard and fast, you don't know, maybe they just decided not to indicate on the appropriate insurance form whether they had spouses. But we think we have about 5,000 people. It is conceivable, given the general attitude that they're younger and healthier, that all 5,000 of those folks might dash for this plan mistakenly believing that they will never be touched by illnesses as the rest of us. So that could create what is generally referred to in the industry as adverse selection. We will have to watch that very carefully once we put this plan together. In other words, what I am saying is that you stop the hemorrhaging over here, it moves here, it moves here, it moves here. It is a shifting target and Ohio State, as I said earlier, like most industries, is trying to find the right solution to help ourselves. Mr. Chairman, with that I will close and answer any questions there might be. Mr. President --

President Jennings:

Thank you, Madison. I think you and Steve have covered this extraordinarily well. There has been broad campus-wide discussion and debate on this issue. I think there is campus recognition as to the cost increases that are going on here -- 40 per cent last year, we expect 35 per cent this coming year. We expect that to continue, particularly in light of the fact that these cost increases are coming late to Ohio State. They have been in the large organizations for some time. This is coming late to us.

It is a very difficult situation for the institution to go through. I think the community -- while certainly they prefer that this not be done -- recognizes that we have to accommodate the cost. It is better to accommodate the cost than do anything in terms of reduction in benefits. This is a marvelous health plan and I think we need to guard against any sort of a reduction in the quality of health care delivery at our institution for our people. This is undoubtedly an item that we will revisit every year for several years to come. I don't think that by adopting this we have closed the door on this. There is no question that this will have to be reviewed for several years to come.

I think it is also important for us to recognize that in this recommendation is the establishment of a committee to monitor costs that is independent of the medical community, and I think that is appropriate. I think the medical community is cooperating very substantially with us on this, but cost containment becomes extraordinarily important in the context of maintaining quality. I support this recommendation in the context of the institutional requirements and in the context of our competition -- namely other Big Ten institutions -- which as Scottie pointed out have already gone to something like this. We do this reluctantly, but recognizing that that is one of the modern facts of life to deal with. I would recommend it for your approval.

Mr. Berry:

Are there any other comments? I think maybe I would like to say one thing. I compliment the committee who worked on this. I think they did a very thorough job.

May 4, 1989 meeting, Board of Trustees

Mr. Berry: (contd)

As the President has indicated, it is something you don't like to do. But I think you have maintained a fine health insurance benefit program, and at the same time minimized the effect on the people by letting them pay for it in pre-tax dollars and things like that. I guess what it amounts to is you really can't afford to get sick these days, but if you do, you better have insurance!

Mr. Teaford:

I wanted to say to Mr. Scott, too, that I very much appreciate the way that this has been layed out for us. It is incredibly complex and I feel like I have a slight chance that I know what I am dealing with here.

**MODIFICATION TO THE UNIVERSITY'S  
GROUP BENEFITS PROGRAM**

Resolution No. 89-115

Synopsis: The Fiscal Affairs Committee recommended modifications to the University's Group Benefits program for employees.

WHEREAS the University regularly reviews the benefits package for faculty and staff to determine the appropriateness of each benefit and the costs associated therewith; and

WHEREAS the rapid escalation in the cost of providing health benefits in particular has resulted in a greater portion of the University's operating budget being used to pay the premiums for employee health insurance; and

WHEREAS the national trend in both the health care and insurance industries indicates an exponential growth in providing health benefits for the foreseeable future; and

WHEREAS the President, the Vice President for Personnel Services, other administrators, University Committees, and individuals representing all parts of the University community have thoroughly reviewed the benefits program; and

WHEREAS the President has recommended the modifications set forth in Appendix LII as a means of maintaining the quality of the faculty/staff benefits program:

NOW THEREFORE

BE IT RESOLVED, That the modifications to the group health care benefits program set forth in Appendix LII be implemented by the Office of Personnel Services through the use of payroll deduction and other appropriate means; and

BE IT FURTHER RESOLVED, That the Vice President for Personnel Services be directed to include in any union negotiations the terms of the group health care benefits program set forth in Appendix LII as part of future collective bargaining agreements in order to reconcile the benefits available to all University staff members.

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

(See Appendix LII for complete text for Recommendations for Modifications of the University's Group Benefits Program, page 1239.)

May 4, 1989 meeting, Board of Trustees

Mr. Barone:

Mr. Chairman, on behalf of us all, it is a great honor that we at The Ohio State University and the Board of Trustees wish to present you with this gavel as a sign of appreciation. You have been a tremendous Trustee and a tremendous Chairman. We want to thank you for your generosity, not only for the material things but the personal things you have done.

Mr. Immke:

Thank you.

President Jennings:

Last night, as you all know, we had a small party and this is the television tape of that party. I'm not sure you want to have a copy of it, but here it is.

Mr. Immke:

Thank you.

--0--

Thereupon the Board adjourned to meet Friday, June 2, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

Leonard J. Immke  
Chairman

APPENDIX XXXVI

THE OHIO STATE UNIVERSITY CAMPAIGN  
March 31, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees May 4, 1989  
(See page 1069)

The Ohio State University Campaign  
Progress Report  
March 31, 1989

	<u>*Campaign Expectancies</u>	<u>Current Year Campaign Receipts (Jul 88-Mar 89)</u>	<u>Previous Years' Campaign Receipts As of June 30, 1988</u>	<u>Total</u>	<u>Campaign Goal</u>	<u>% Achieved</u>
Alumni	\$64,471,979	\$10,506,043	\$38,283,424	\$113,261,446	\$122,500,000	92
Friends	32,648,785	5,144,016	28,643,850	66,463,651	70,000,000	95
**Corporations	13,806,954	13,682,929	101,125,935	128,615,818	122,500,000	105
Foundations	<u>3,071,734</u>	<u>3,900,281</u>	<u>19,935,229</u>	<u>26,907,244</u>	<u>35,000,000</u>	77
Totals	\$113,999,452	\$33,233,269	\$187,988,438	\$335,221,159	\$350,000,000	96

\*Defined as pledges and deferred commitments less payments already received.

\*\*Corporations, businesses, associations and private agencies.



THE OHIO STATE UNIVERSITY  
OFFICE OF UNIVERSITY DEVELOPMENT  
OSU FOUNDATION & DEVELOPMENT FUND RECEIPTS

July-March  
1987-88 Compared to 1988-89

GIFT RECEIPTS BY DONOR TYPE

	<u>July</u> <u>1987-88</u>	<u>Donors</u> <u>July through March</u> <u>1988-89</u>	<u>% Change</u>	<u>1987-88</u>	<u>Dollars</u> <u>July through March</u> <u>1988-89</u>	<u>% Change</u>
Alumni	39,525	36,484	(8)	\$7,372,265	\$10,506,043	43
Non Alumni	17,967	17,169	(4)	5,564,945	5,144,016	(8)
Corporations	1,687	1,823	8	6,370,378	9,683,934	52
Corporate Foundations	235	222	(6)	1,439,672	1,556,179	8
Private Foundations	128	136	6	7,680,563	3,900,281	(49)
Other	<u>1,002</u>	<u>977</u>	(2)	<u>1,970,642</u>	<u>2,442,816</u>	24
TOTAL	60,544	56,811	(6)	\$30,398,465	\$33,233,269	9

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APPENDIX XXXVII

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
April 21, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees May 4, 1989  
(See page 1069)



Office of the Treasurer

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**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
April 21, 1989**

**Endowment Composition**

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>04-21-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 40,592,603	17.33%
Nicholas-Applegate	10,454,591	5.10	11,266,474	4.81
Siebel	34,428,707	16.81	38,260,246	16.33
Mutual Fund	17,462,592	8.53	19,678,036	8.40
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>53,533,900</u>	<u>22.86</u>
<b>Total Equities</b>	<b>\$133,632,655</b>	<b>65.24%</b>	<b>\$163,331,259</b>	<b>69.73%</b>
<b>Fixed Income:</b>				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 21,655,681	9.25%
Cambridge	921,925	0.45	899,176	0.38
Duff & Phelps	9,983,561	4.87	9,872,939	4.22
STW Fixed Income	22,300,069	10.89	22,323,962	9.53
OSU - GNMA	9,954,372	4.86	9,655,027	4.12
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,498,010</u>	<u>2.77</u>
<b>Total Fixed Income</b>	<b>\$ 71,210,234</b>	<b>34.76%</b>	<b>\$ 70,904,795</b>	<b>30.27%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$204,842,889</b>	<b><u>100.00%</u></b>	<b>\$234,236,054</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 43,089,186</b>		<b>\$ 36,569,784</b> (2)	
<b>Total Portfolio</b>	<b><u>\$247,932,075</u></b>		<b><u>\$270,805,838</u></b>	

1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value April '88 to April '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.61% (1)	9.37%	12.98%
Common Stock (Nicholas-Applegate)	1.82 (2)	17.79	19.61
Common Stock (Siebel)	4.24 (3)	15.47	19.71
Mutual Fund	3.03	17.79	20.82
Common Stock (OSU Managed)	4.79 (4)	14.87	19.66
Standard & Poor's Index	3.76	19.19	22.95

<b>Real Estate:</b>	4.37%	-0- (11)	4.37%
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**Fixed Income:**

Bonds (Boatmen's Trust, formerly Centerre Trust)	8.44% (5)	(3.54)%	4.90%
Bonds (Cambridge)	8.27 (6)	(3.14)	5.13
Bonds (Duff & Phelps)	8.85 (7)	(1.45)	7.40
Bonds (STW Fixed Income)	9.27 (8)	(0.08)	9.19
Bonds (OSU - GNMA)	9.96 (9)	(3.01)	6.95
Bonds (OSU Managed)	8.00 (10)	2.75	10.75
Merrill Lynch Corporate/ Government Master	9.12	(2.35)	6.77

- (1) 19.4% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.7%.
- (2) 0.9% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 9.1%.
- (3) 49.7% of Siebel portfolio is made up of cash and cash equivalents which earn 9.8%.
- (4) 50.9% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.8%.
- (5) 11.0% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.1%.
- (6) 1.1% of Cambridge portfolio is made up of cash and cash equivalents which earn 9.1%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 9.1%.
- (8) 0.9% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 9.1%.
- (9) 0.6% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 9.1%.
- (10) 92.3% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.1%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through April 30, 1989, totaled approximately \$11,996,000.
- (13) Income from University Cash Investments through April 30, 1989, totaled approximately \$11,921,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>04-21-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$109,090,546	40.29%
Principal Additions	11,694,162	Fixed Income	62,105,600	22.93
Principal Withdrawals	(126,410)	Real Estate	36,458,000	13.46
Change in Market Value	<u>11,306,011</u>	Cash	<u>63,151,692</u>	<u>23.32</u>
<b>Current Market Value</b>	<b><u>\$270,805,838</u></b>	<b>Total Portfolio</b>	<b><u>\$270,805,838</u></b>	<b><u>100.00%</u></b>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
500,000	U.S. Treasury Note 14.375% 04/15/89	Siebel	\$0.00

Real Estate

Sale

No Activity

Total Investment

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
5,200	McKesson Corp.	Chicago	30.7500	\$ 160,238.00	\$ 7,488.00
7,000	Autodesk, Inc.	Nicholas- Applegate	32.4152	226,906.25	0.00
4,300	Bausch & Lomb, Inc.	"	52.4722	225,888.30	4,988.00
8,200	Community Psychiatric Centers	"	26.4854	217,671.90	2,952.00
3,600	General Mills, Inc.	"	59.2707	213,590.40	6,768.00
4,000	Intel Corp.	"	28.8187	115,275.00	0.00
3,300	Merck & Company, Inc.	"	65.1370	215,150.10	5,412.00
7,500	Rubbermaid, Inc.	"	28.9134	217,300.60	3,300.00
16,700	Seagate Technology	"	13.8979	232,095.40	0.00
2,500	Tandem Computers, Inc.	"	18.6544	46,786.10	0.00
6,100	Telephone and Data Systems, Inc.	"	39.1250	238,662.50	1,586.00
5,221	Banc One Corp.*	OSU	22.8565	119,333.69	5,429.84
2,735	Van Kampen Merritt U.S. Gov't. Fund*	"	14.6200	39,985.75	0.00
5,100	Bancorp Hawaii, Inc.	Siebel	43.7500	<u>223,125.00</u>	<u>6,936.00</u>
				<u>\$2,492,008.99</u>	<u>\$44,859.84</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain (Loss) On Sale</u>
7,800	Brunswick Corp.	Chicago	17.0000	\$ 132,127.58	\$(23,404.42)
5,832	Pall Corp.	"	28.2500	164,398.58	(13,878.69)
10,000	Black & Decker Corp.	Nicholas-			
		Applegate	20.4120	203,513.03	(26,456.97)
12,500	Charming Shoppes, Inc.	"	14.3750	179,687.50	(32,812.50)
4,600	Consolidated Freight-	"	29.3414	134,689.98	(11,933.60)
	ways, Inc.	"	33.8400	37,156.75	1,776.96
1,100	Consolidated Rail Corp.	"	27.2500	19,032.36	(2,078.31)
700	Eljer Industries, Inc.	"			
1,700	Household International,	"	62.9970	106,989.33	14,953.03
	Inc.	"	38.1548	262,845.22	436.57
6,900	K Mart Corp.	"	27.1250	192,155.08	(23,682.95)
7,100	Ogden Corp.	"	24.0020	47,882.39	893.93
2,000	Salomon, Inc.	"	14.7500	10,282.65	91.29
700	Schwitzer, Inc.	"	12.8750	8,970.19	(857.19)
700	Scotsman Industries	"	29.2688	257,028.90	(9,219.60)
8,800	Stone Container Corp.	"	33.8750	118,348.54	34,588.29
3,500	Tyco Labs, Inc.	"			
3,300	Union Bank of	"	24.8598	82,037.50	(7,062.50)
	San Francisco	"	25.9558	243,412.35	(15,224.45)
9,400	Varian Associates, Inc.	"			
1,160	Campbell Soup. Co.*	OSU	33.0000	37,974.22	256.72
2,450	Preformed Line	"	73.0000	178,850.00	4,900.00
	Products*	"			
16,000	Hilton Hotels Corp.	Siebel	57.9130	925,617.11	212,897.11
8,300	Loews Corp.	"	91.6345	759,959.83	379,851.29
21,000	Springs Industries	"	40.5292	849,615.31	125,115.31
	Cl. A	"	7.5000	300,000.00	(292,500.00)
40,000	VLSI Technology, Inc.	"			
				<u>\$5,252,574.40</u>	<u>\$316,649.32</u>

\* Gift.



The Ohio State University  
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
575,000	Bear Stearns CMO 8.900% 06/01/17	Boatmen's	10.1896	10.2811	87.3437	\$ 502,226.56
600,000	Southwestern Bell Telephone 7.750% 09/01/09	"	9.6470	10.0296	80.3360	482,016.00
400,000	U.S. Treasury Bond 8.875% 08/15/17	"	9.1230	9.1430	97.2812	389,125.00
3,680,000	U.S. Treasury Bond (Stripped) 0.000% 05/15/04	"	0.0000	9.0680	26.2850	967,288.00
1,800,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.0187	9.0281	98.4062	1,771,312.50
6,800,000	U.S. Treasury Note 8.875% 11/15/98	STW	9.1299	9.3189	97.2081	<u>6,610,150.80</u>
						<u>\$10,722,118.86</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
550,000	Southwestern Bell Telephone 8.250% 04/01/17	Boatmen's	83.2370	\$ 457,803.50	\$ (6,528.50)
425,000	Community Program Loan Trust 4.500% 10/01/18	"	54.6250	232,156.25	1,263.42
100,000	Franklin Savings Assn. 9.500% 02/15/18	"	91.7840	91,784.00	(5,477.00)
100,000	Northwestern Bell Telephone 8.125% 03/15/17	"	82.4000	82,400.00	(1,100.00)
575,000	General Motors Corp. 8.125% 04/15/16	"	81.6570	469,527.75	(4,462.00)
3,100,000	U.S. Treasury Bond (Stripped) 0.000% 05/15/02	"	31.1990	967,169.00	73,594.00
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	97.2812	875,531.25	(10,406.25)
4,000	American Telephone & Telegraph* 7.000% 02/15/01	OSU	80.7500	3,322.56	0.00
6,800,000	U.S. Treasury Note 9.250% 08/15/98	STW	99.5937	<u>6,772,375.00</u>	<u>(25,746.25)</u>
				<u>\$9,952,069.31</u>	<u>\$21,137.42</u>

\* Gift.

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46%	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hangar at Don Scott Field (Loan)	.00	1973	33,331 (1)	33,331	N/A
Hangar addition at Don Scott Field (Loan)	10.00	1978	78,453 (1)	78,453	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1988	100,000	100,000	06/88
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/87
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/87
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Eiterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,442,725</u>	<u>\$36,569,784</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002

Phone 614-292-6261  
Telex: 205261  
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Cable: OSU TRES UD

MEMORANDUM

Subject: Proxy Voting  
Date: April 30, 1989  
From: James L. Nichols, Treasurer *James L. Nichols*  
To: Board of Trustees, The Ohio State University

During the month of April 1989, the University voted 94 proxies.

Management proposals were as follows:

- 1) Ratification of the Board of Directors;
- 2) Approval of Independent Auditors;
- 3) Amendment to incentive compensation plan;
- 4) Approval of Stock Option Plan for non-employee directors;
- 5) Approval of the Directors Stock Award Plan;
- 6) Approval of the Employee Stock Appreciation Rights Plan;
- 7) Amendment to increase authorized shares of Common Stock;
- 8) Approval of the agreement and plans trust;
- 9) Amendment to Employee Stock Purchase Plan;
- 10) Approval of the Restricted Stock Award Plan;
- 11) Approval of Trustee;
- 12) Elimination of Directors' liability to the Company or its stockholders;
- 13) Fixing the number of Class A and Class B directors;
- 14) Provide for the voting of Class A and Class B common stock as separate classes;
- 15) Approval of the restricted stock plan for non-employee directors;
- 16) Increase the number of shares that may be available under employee stock purchase plan;
- 17) Approval of senior management's and Directors' stock plan;
- 18) Allow directors more discretion in discharging duties;
- 19) Approval of a long-term performance plan;
- 20) Authorize the purchase of outstanding common stock;

- 21) Amendment to provide officers the right to surrender options for cash under certain circumstances;
- 22) Amendment to the long-term incentive plan;
- 23) Allow granting of options to certain key company officers;
- 24) Approval of performance sharing plan;
- 25) Increase the number of directors;
- 26) Fixing the number of directors for the ensuing year;
- 27) Amendment of the contingent stock plan to increase shares available thereunder and to eliminate termination date;
- 28) Allow options to directors who are not employees;
- 29) Amendment to deferred compensation plan to increase contributions;
- 30) Amendment to authorize the Board of Directors to adopt, amend, or repeal the company's by-laws.

Shareholder proposals were as follows:

- 1) Sever all remaining business ties with South Africa;
- 2) Amendment to keep proxy voting confidential;
- 3) Insure that no corporate funds be given as donations except for business purposes;
- 4) Provide for cumulative voting in the election of directors;
- 5) Recommend that the board of directors redeem or submit to a shareholder vote, the rights to purchase preferred stock;
- 6) Make no loans to corporations which have changed their annual meeting date;
- 7) Prohibit further participation in Chilean Debt-Equity swaps;
- 8) Limit term for outside directors to six years;
- 9) Require that new directors be elected annually and not by classes;
- 10) Take necessary steps to have the accounting firm elected by all the shareholders each year;
- 11) Require directors to own at least 2,000 shares of common stock;
- 12) Require the corporation to affirm its political non-partisanship;
- 13) Restore limited pre-emptive rights to shareholders;
- 14) Implementation of the MacBride Principles;
- 15) Suspend all further investment in Malaysian subsidiaries;
- 16) Provide for the formation of a nominating committee, at least the majority of which should be composed of outside directors;
- 17) Provide stockholders a list of Vice-Presidents and above with prior government service;

- 18) Provide stockholders information on boiling water reactors;
- 19) Provide stockholders information on company's nuclear energy business;
- 20) Require the company to reduce the use of hazardous material in their operations;
- 21) Provide stockholders a list of all political contributions;
- 22) Provide disclosure regarding all aspects of animal testing of consumer products;
- 23) Report all activity of a subsidiary in Northern Ireland to shareholders;
- 24) Not to be governed by Section 203 of the Delaware General Corporation Law;
- 25) Take necessary steps toward affirmative action and equal opportunity;
- 26) Reinstate annual election of directors;
- 27) Require directors to own at least 1,000 shares of common stock;
- 28) Require the company to study impact of plant closings;
- 29) Amend the company's incentive plan;
- 30) Implement a policy of secret ballot voting at all shareholder meetings;
- 31) Submit the preferred share purchase rights plan to a vote of shareholders.

The University voted for all management proposals and against all shareholder proposals except proposal 1. Management opposed all shareholder proposals.

The 94 corporations were:

- 1) American Electric Power Company, Incorporated
- 2) AMR Corporation
- 3) Anadarko Petroleum Corporation
- 4) Bankers Trust New York Corporation
- 5) CR Bard, Incorporated
- 6) Bausch and Lomb, Incorporated
- 7) Bell Atlantic Corporation
- 8) Bellsouth Corporation
- 9) Bemis Company, Incorporated
- 10) Brunswick Corporation
- 11) Capital Cities/ABC Incorporated
- 12) Capital Holding Corporation
- 13) Clark Equipment Company
- 14) CNA Financial Corporation
- 15) Coca-Cola Company

- 16) Consolidated Papers, Incorporated
- 17) Cooper Development Company
- 18) Cooper Industries, Incorporated
- 19) Crawford and Company
- 20) AT Cross Company
- 21) Cypress Semiconductor Corporation
- 22) Ethyl Corporation
- 23) Exon Corporation
- 24) Federal National Mortgage Association
- 25) First Wachovia Corporation
- 26) Flight Safety International, Incorporated
- 27) FPL Group, Incorporated
- 28) Geico Corporation
- 29) General Electric Company
- 30) Georgia-Pacific Corporation
- 31) Great Lakes Chemical Corporation
- 32) Greyhound Corporation
- 33) Hilton Hotels Corporation
- 34) Holiday Corporation
- 35) Home Depot Corporation
- 36) Household International Incorporated
- 37) Hubbell, Incorporated
- 38) IBM Corporation
- 39) Inland Steel Industries Incorporated
- 40) K Mart Corporation
- 41) Lance, Incorporated
- 42) Lawson Products, Incorporated
- 43) Lin Broadcasting Corporation
- 44) Lincoln National Corporation
- 45) Lockheed Corporation
- 46) Loews Corporation
- 47) Longs Drug Store Corporation
- 48) Marriott Corporation
- 49) Martin Marietta Corporation
- 50) McGraw-Hill, Incorporated
- 51) MCI Communications Corporation
- 52) Millipore Corporation
- 53) National City Corporation
- 54) NBD Bancorp, Incorporated
- 55) Nevada Power Company
- 56) Nordstrom, Incorporated
- 57) Nucor Corporation
- 58) Nynex Corporation
- 59) Olsten Corporation
- 60) Pacific Telesis Group
- 61) PepsiCo, Incorporated

- 62) Philip Morris Companies, Incorporated
- 63) Phillips Petroleum Incorporated
- 64) Pitney Bowes, Incorporated
- 65) Preformed Line Products, Incorporated
- 66) Primerica Corporation
- 67) Policy Management Systems Corporation
- 68) Potlatch Corporation
- 69) Rohm and Haas, Incorporated
- 70) Rubbermaid, Incorporated
- 71) Russell Corporation
- 72) Ryder Systems, Incorporated
- 73) Safeco Corporation
- 74) Salomon, Incorporated
- 75) Sealed Air Corporation
- 76) Sigma-Aldrich Company
- 77) Snap-On Tools Corporation
- 78) Southern New England Telecommunications Corporation
- 79) Southwestern Bell Corporation
- 80) Stone Container Corporation
- 81) Stryker Corporation
- 82) Tambrands, Incorporated
- 83) Teleflex, Incorporated
- 84) Transco Energy Corporation
- 85) US Air Group Incorporated
- 86) UST Incorporated
- 87) US West Incorporated
- 88) Vulcan Materials Company
- 89) The Washington Post Company
- 90) Waste Management, Incorporated
- 91) Wells Fargo and Company
- 92) Willamette Industries, Incorporated
- 93) Wisconsin Energy Corporation
- 94) WW Grainger, Incorporated



APPENDIX XXXVIII

EXECUTIVE SUMMARY  
GRADUATE SCHOOL UPDATE

Presented to the Academic Affairs Committee  
(See page 1070)

## **EXECUTIVE SUMMARY**

Presentation to the Board of Trustees of The Ohio State University, by Roy A. Koenigsknecht, Dean of the Graduate School - May 4, 1989

Dean Koenigsknecht gave an overview and history of graduate education at The Ohio State University. He indicated that graduate education is at the core of the major research university, noting its affects on undergraduate and professional education as well as on the nature of faculty research programs.

**Demographics:** Ohio State has the largest enrollment of graduate students (10,679) on a single campus in the nation. We are among the national leaders in number of advanced degrees awarded, international graduate students, and domestic graduate students from outside the state, although 65% of our graduate students are from the State of Ohio. Ohio State ranks second nationally in the number of doctoral degrees awarded to black students.

**Organization:** The Graduate School has a university-wide reach, offering degree programs in every college but Law. In setting and maintaining academic standards for graduate education, the Graduate School relies on faculty governance to influence quality throughout the 94 doctoral and 127 masters degree programs. The 2,400 graduate faculty, the 127 graduate studies committees, the Research and Graduate Council, and various Graduate School committees collectively determine the conduct of graduate education at the university.

**Support of Graduate Education:** The Graduate School supports graduate education through many of its ongoing programs: fellowship competitions, recruitment grants and workshops, visits by internationally eminent scholars, a summer research program for minority undergraduate students, to name a few. Professor Keith Alley, Oral Biology and Anatomy, and Ms. Kathryn Lilly, Ph.D. candidate in Electrical Engineering, provided their views on the critical importance of Graduate School fellowships from the perspective of a selection committee and of a fellowship recipient, respectively.

Ohio State relies heavily on the use of Graduate Teaching Associates to carry out its instructional mission and to support graduate students. With fewer than half our graduate students receiving fellowship or graduate associateship support, our faculty support an increase in efforts to provide fellowship support for outstanding prospective and continuing graduate students.

**The Future:** This past year, Dean Koenigsknecht appointed a fifteen member Commission on Graduate Education to make independent assessments and recommendations on graduate education at Ohio State, with a report due next year, the one-hundredth anniversary of our first award of a doctoral degree. He noted that while there is much that is good about graduate education at Ohio State and our graduates have gone on to make significant contributions in academics, business, and the professions, the Commission report in conjunction with the strategic planning process will stimulate change and development as needed.

APPENDIX XXXVIII

EXECUTIVE SUMMARY  
REPORT ON THE STUDENT HEALTH INSURANCE COMMITTEE  
COUNCIL ON STUDENT AFFAIRS

Presented to the Student Affairs Committee and  
Adopted by the Board of Trustees May 4, 1989  
(See page 1090)

## Executive Summary

Escalating costs of medical benefits are being reported nationwide. National news and trade journals have predicted a twenty percent to thirty percent increase in health insurance premiums for 1989. With these industry forecasts as a backdrop, the Student Health Insurance Committee moved forward with their responsibility of submitting its recommendations on a policy regarding the student health insurance plan. The committee's recommendations address coverage, cost, and selection of the provider. The following recommendation seeks to control costs and enhance the medical benefits coverage for students.

### Recommendation

Given the limitation of receiving only one fully insured proposal, and two self-insured, third-party administered program proposals that met bid specifications, the committee made the following recommendation:

The committee recommends continuing with Central Benefits under their fully insured proposal for 1989-90 and 1990-91. Coverage should reflect the inclusion of Alternate 1 (increasing room and board \$10 in 1989-90, and \$5 in 1990-91); Alternate 3-A (reducing deductible on outpatient substance abuse and nervous/mental benefits from \$500 to \$250 and increasing coinsurance from 50% to 80%); and Alternate 4-C (increasing major medical coverage to \$100,000).

### Basis for Recommendation

1. The committee determined that a self-insured, third-party administered program would not produce monetary savings for the students or provide enhanced benefit coverage. Such a program would, however, result in a shortfall to the University if the estimated premiums available to pay the claims were less than the actual claims. If this shortfall did occur the University or the students would have to pay the difference, a liability the committee did not want to impose on either group.
2. Central Benefits was the only fully insured bid received and they have underbid all competitors the last two years.
3. Central Benefits' fully insured proposal:
  - A. Provides a 7.5% retention rate (compared to 8% in 1988-89);
  - B. Continues coverage by the current carrier;

- C. Reduces start-up costs for the University Health Service because of working with the current carrier, although this was a minor consideration;
- D. Single student quote (including alternatives) compares favorably (at 23.6% increase year 1 and 10.1% increase year 2) with industry forecasts of 20-30% increase in health insurance premiums for 1989 alone;
- E. Improves benefits coverage in areas deemed desirable and does so at competitive rates; and,
- F. Recognizes a satisfactory work history with the company.

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**APPENDIX XXXX**

**REPORT ON THE OFFICE FOR DISABILITY SERVICES  
DIVISION OF STUDENT AFFAIRS**

**Presented to the Student Affairs Committee  
(See page 1091)**

**OFFICE FOR DISABILITY SERVICES  
DIVISION OF STUDENT AFFAIRS**

**Mandate**

**Section 504 of the Rehabilitation Act of 1973**

No otherwise qualified handicapped individual in the United States \* \* \* shall solely by reason of his handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

**Mission Statement**

The mission of the Office for Disability Services is to ensure that all disabled individuals can freely and actively participate in all facets of University life; to provide and coordinate support services and programs to enable disabled students to maximize their educational potential and to develop their independence to the fullest extent possible; and to increase the level of awareness among all members of the University community in order to enable disabled individuals to perform at a level limited only by their abilities, not their disabilities.

**Objectives**

Provide, promote, and/or coordinate those services and programs necessary to ensure access for all disabled students.

Provide and coordinate academic support services which enable disabled students to participate in the educational experience limited only by their abilities, not their disabilities.

Identify and remove those physical and attitudinal barriers which prevent disabled individuals from being full and equal participants in all facets of the University experience.

Assist in the retention of high risk students through early identification of learning disabled students and prescriptive application of support services and skill development.

Improve the quality of services received by disabled students through ongoing program evaluation surveys and student needs assessments.

Maximize the human, fiscal, and physical resources of the program through effective and creative management.

Enhance and augment programs and services available to disabled students through external funding when possible.



THE OHIO STATE UNIVERSITY  
OFFICE FOR DISABILITY SERVICES

Fact Sheet

<u>Staffing:</u>	8 Professional Staff-Columbus 3 Professional Staff-Regional Campuses & ATI 3 Support Staff 3 Graduate Research Associates 13 Student Employees 148 Volunteers
<u>Professional Staff FTE:</u>	7.1 Columbus Campus 2.0 Regional Campuses & ATI 9.1 Total FTE
<u>Annual Budget:</u>	\$348,420 Columbus Campus 47,310 Regional Campuses & ATI \$395,730 Total Budget *
<u>Clients Assisted:</u>	499 Learning Disabled Students 211 Mobility Impaired Students 66 Visually Impaired Students 28 Hearing Impaired Students 153 Other Disabled Students 957 Total Number of Disabled Students  468 Temporarily Impaired Students  157 Disabled Faculty and Staff

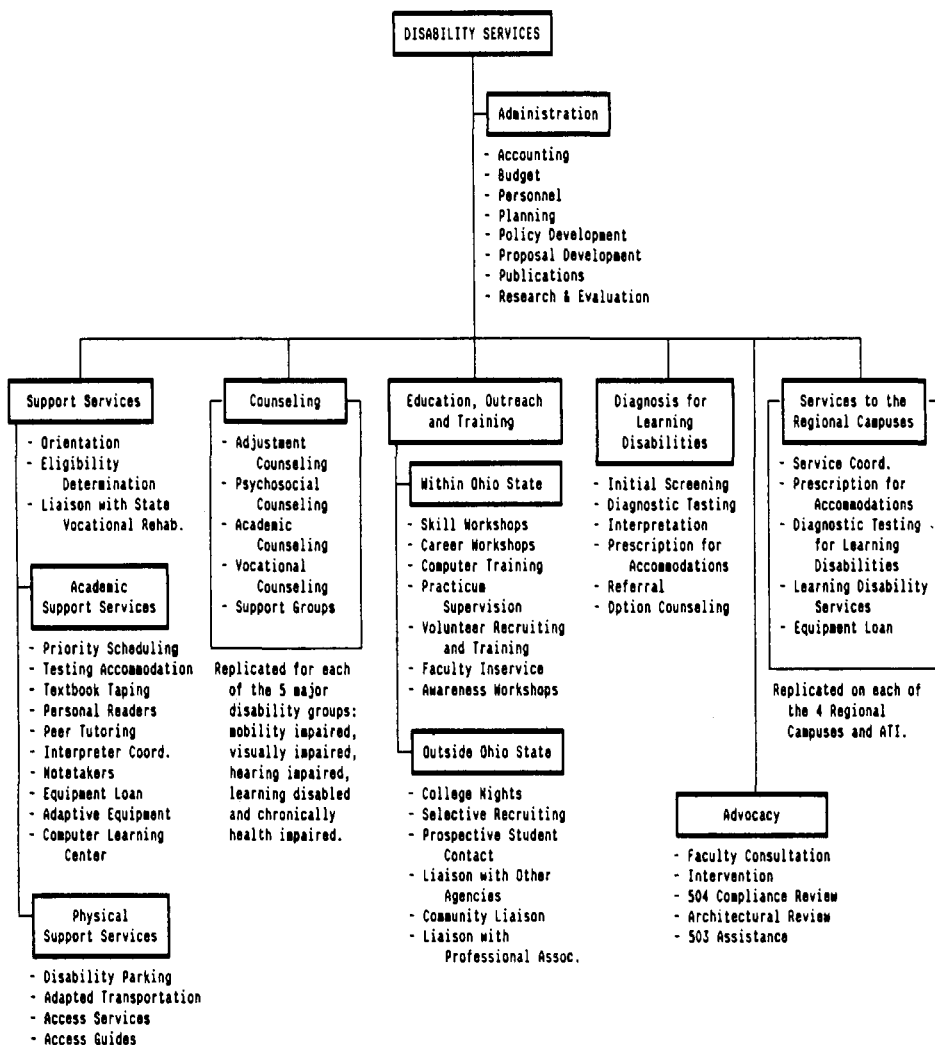
Statistics for '88-'89 \*\*

5,002	Hours of Academic Testing Accommodations
625	Final Exams Proctored
317	Exams Taken Using the Closed Circuit TV
678	Hours of Textbook Recording
554	Hours of Volunteer Testing Assistance
504	Hours of Tutoring Assistance
264	Students Given Diagnostic Tests for Learning Disabilities
22,702	Adapted Transportation Passenger Trips
205	Disability Parking Permits Issued
811	Hours of Computer Instruction
173	Hours of Interpreter Usage

\* Does not include benefits.

\*\* From Spring '88 through Winter '89.

# FUNCTIONAL ORGANIZATION CHART OF THE OFFICE FOR DISABILITY SERVICES



APPENDIX XXXXI

ORGANIZATIONAL REVIEW TEAM AND  
THE ORGANIZATIONAL REVIEW RECOMMENDATIONS

Presented to the Agricultural Affairs Committee  
(See page 1096)



Ohio Cooperative Extension Service

Administration  
2120 Fyffe Road  
Columbus, OH 43210-1010  
Phone 614-292-6181

February 13, 1989

To: Administrative Cabinet  
Re: Organizational Review, Major Issues/Concerns  
From: Keith L. Smith, Organizational Development

As stated before, the major purpose of the Organizational Review Team was to examine the Ohio Cooperative Extension Service and specifically look at the organizational structure of our organization, to offer suggestions of how we might be organized for best communication and delivery of our programs, taking into account our new long range report and our new staffing patterns. With this charge in mind, the following key issues were raised.

**1. Span of Control.**

The director of the Ohio Cooperative Extension Service and to a lesser extent the five district supervisors of the organization were identified as having too large a span of control.

**2. Coordination of Statewide Extension Programs.**

The two major points were

- a) there needs to be a point of coordination, specifically a person in the system who has overall responsibility for program planning
- b) role clarification, especially at the district specialist level.

**3. Development and Coordination of Issue Programming.**

The committee felt issue programming will be a key and important element of future programming. They suggest that in addition to statewide task forces related to key issues, center structures on campus and multi-county units be considered as important methods to implement multi-disciplinary and interdisciplinary issue programming. This would also tie in with the focus on programs under item 2.

**4. Structure and Organization for Support Units for the Ohio Cooperative Extension Service.**

- a) Computer-communications - encouraged a combination in this area
- b) Staff development - a combination with personnel and suggesting at least one to two FTEs be identified in the staff development area.
- c) Coordination - recommended that one person should coordinate the support unit structure.

**5. Role in Relationship between Assistant Directors, Department Chairs, and District Supervisors.**

- a) Role clarification. A great deal of confusion appears to exist in the organization about the role of these different personnel. Suggestions for a council to bring these three groups together.

**6. The Role and Function of District Specialists.**

Here again, the question as to roles. Are they district program coordinators? Do they serve as area agents? Or as district specialists? A suggestion also on reporting or who they would answer to.

**7. Integration of Specialists in 4-H and CNRD into Departments.**

A suggestion that in the case of both 4-H and CNRD, recognize the multi-disciplinary nature of these areas and encourage faculty to be integrated into a variety of departments rather than a single department. A suggestion that the 4-H program area look into the youth center concept.

**8. Promotion and Tenure.**

The major recommendation was for administration to make a concerted effort with OSU central administration to adapt the promotion and tenure system so that Extension faculty are evaluated on the basis of their job functions. They also supported the move toward joint research and Extension appointments for state specialists.

**9. Cultural and Ethnic Diversity in Clientele and Staff.**

A noticeable lack of discussion and expression of the concern about strengthening the efforts to reach an increasingly, culturally diverse audience. Need to concentrate more on affirmative action efforts.

**10. Commitment to CNRD.**

Concern was that CNRD appears to be more of a supplemental program than a high priority mainstream program. The question is, is CNRD a high priority for OCES? And if so, serious attention needs to be given to this area in the form of resource allocation, increased staff development, and training.

Other related observations made by the team were that there appears to be two Extension program agendas in Ohio, one developed by personnel at the district and county level and the other at the state level by department chairs and specialists. There was concern that we might have five Extension program agendas rather than one. Also, how do we bring together the apparent divergence of objectives between the assistant directors who focus on programs and district supervisors who focus on personnel and staffing. As a result of the recommendations/issues and other observations, the organizational chart was suggested to put more focus on programs, to coordinate the administrative support staff structure to provide for quality communications, and to free up the director from his overload span of control.

Other specifics from the recommendations can be noted on the chart.

### ORGANIZATIONAL REVIEW RECOMMENDATIONS

This is my response to the Organizational Review Team's recommendations. I am very pleased with the way the Review Team took their responsibility seriously. They listened carefully and made recommendations that will allow us to fulfill our mission of being a research based organization that delivers educational programs in response to the needs of the people.

I also want to thank each of you for your input, especially those who took time to visit with the Review Team. It was very helpful to have input from all phases of the organization.

On February 13, you received a memo from Keith Smith in which he summarized the areas of concern identified by the Review Team and the recommendations they presented to us. We appreciate the excellent response. Since that time, administrative cabinet and department chairs met and heard reports from different segments of our Extension faculty responding to each of the areas of concern. I want to thank Larry Ault, Kathy Cox, Joe Pittman, Ruth Conone, Keith Smith, Bob Troutman, and Fred Miller for taking the responsibility of summarizing the responses into concise reports.

The Review Team made several recommendations. Some of these, we can come to closure on at the present time, and others will require further study. One theme that was very common throughout the entire review was that the organization needs to concentrate more on programs. I suppose that is understandable, since in the last two to three years, we have concentrated mostly on administrative matters such as downsizing. We are making good progress on new county staffing patterns. It is time for us to emphasize programs. We want to be a program driven organization, and in order to do that we must highlight and focus upon the priority program areas.

The following is my response to the ten points of the February 13 memo from Keith Smith.

1. Span of Control. The Review Team recommended that we reduce the number of people reporting directly to the director. The team recommended two associate directors, one for administration and one for program with the

administrative support units reporting directly to the associate director for administration and all others reporting to the associate director for programs. I see this as a long-term recommendation. However, with our present budget constraints, I do not feel that we can justify adding a second associate director. Therefore, we will have one associate director with primary responsibility for administration for the day-to-day operations of the organization. The administrative support units will be reporting directly to that person. The associate director will also act on behalf of the director when the director is not available. As the director, I will give overall leadership for the program part of the organization working more closely with and through the assistant directors for program. There will be four assistant directors, one for each of the four major program areas, Agriculture, 4-H, Home Economics, and Community and Natural Resource Development. The assistant directors will be responsible for working directly with their assigned program area as well as having responsibility for issue based programs. The assistant directors will have responsibility for the coordination of the statewide program in Extension. The assistant directors, department chairs, and the district supervisors must work closely together to make sure that the departments, districts, and counties have adequate input into the program development process and that the programs in all three are integrated into a coordinated program.

The transition team of Chuck Lifer, Keith Smith, and John Stitzlein will continue until the associate director position is filled.

A search process will be initiated immediately to fill the positions of associate director and three assistant directors (agriculture, 4-H, and CNRD). We will use an internal search for the associate director position and a national search for the three assistant director positions.

The state specialists will continue to be housed in the academic units and will be responsible to the appropriate department chair. However, I foresee more interdisciplinary and multidisciplinary program efforts occurring, especially as we address issue based programming. This will necessitate academic units working more closely together in solving problems that relate to major issues.

Multi-county agents will continue to be responsible to the district

supervisors. A task force has been appointed and is currently working to provide input as to how the organization can respond to the needs of the multi-county and single county agents, and chairs in the counties that are involved in a multi-county staffing arrangement.

We have just completed an in-service which was very helpful in identifying some of the concerns and the constraints that multi-county agents/chairs/single county agents currently face. We are in the process of addressing each of these concerns at the present time.

We are pursuing the possibility of changing district supervisors titles to district directors. This is more appropriately in line with the titles of Extension middle managers in other states. Their responsibilities probably would not change. It would only allow us to have a more appropriate title equal to their peers in other states.

## **2. Coordination of Statewide Extension Programs.**

At the present time, we have appointed a program committee, chaired by Chuck Lifer. The committee is charged to develop a program development process by which everyone understands their role and responsibility in developing a coordinated statewide program that will have major impact upon individuals, families, farms and communities in Ohio. They are also charged with developing a streamlined reporting system, to report necessary results that include impact of programs. The assistant directors will have the responsibility of coordinating and integrating programming efforts of districts, counties, and departments into a focused statewide program.

**3. Development and Coordination of Issue Programming.** It is essential that the issue programming process be integrated into the overall program planning process. The issue based program is not just for those serving on the six issue task forces, but for the entire organization. The task force responsibility is to develop the statement, and set the direction for the issue so that the organization can develop programs that respond to that particular issue. Programming to respond to issues will become a vital part of our statewide program planning process. Again I will look to the assistant directors to provide the leadership of integrating the issue based programming process into the statewide Extension program.

**4. Structure and Organization for Support Units.** The Review Team



recommended that we combine several of the support units; Computer Management with Information and Applied Communications, Personnel with Personnel Development, and Program Evaluation with Reporting. These are excellent recommendations that should be seriously considered. However, the final decision will not be made until the Associate Director has been identified and is on board. In the meantime, we will continue to talk with those individuals involved to determine what is best for those units and the organization.

In the personnel and personnel development area, the Review Team recommends that we should add more FTEs to this area. I would agree that this needs to be done, and as budget permits, we will move in that direction. It is important that we strengthen these areas so that we can make sure that we are attracting high quality personnel to the organization retaining the quality people that we have as well as further strengthening our faculty and staff professionally for the future.

5. Role and Relationship among Assistant Directors, Department Chairs, and District Supervisors. The Review Team recommends that the role of these individuals be clarified. The clarification of their role will become more apparent once the program planning process has been finalized. Through this process, all individuals within the organization will be able to clearly understand what their role is.

6. The Role and Function of District Specialists. It was very apparent that the district specialists are involved in three different ways: 1) as program leaders, 2) area agents, and 3) specialists. I will be working with the district supervisors, district specialists, assistant directors, and department chairs to determine the appropriate role of the district specialists. This may vary depending on the program area, but I believe there should be at least one person from each program area who should be assigned a portion of his/her time to provide program leadership and coordination within the district. The remainder of their time should be utilized as a specialist. District specialists will be administratively responsible to the district supervisors with subject matter responsibility to the appropriate academic unit.

7. Integration of Specialists in 4-H and CNRD into Departments. Moving state specialists from 4-H and CNRD into academic departments will be a

long-term goal wherever this is appropriate. This will be especially true when new replacements are hired. When that opportunity presents itself, we will seriously consider what should be the appropriate academic home. This integration will be in a number of departments rather than a single department. We need to strengthen the research base in both the 4-H and the CNRD program areas. If we are going to be an organization that disseminates research based information, then it is very important that we have a research base behind all of our program areas including CNRD and 4-H youth development.

We are going to seriously consider the "center" concept for the youth development program, whereby faculty expertise is drawn from several university departments to strengthen the overall program effort in youth development. These linkages and networks with departments outside the four current Colleges will provide us with resources we need but do not have in Agriculture, Home Economics, Veterinary Medicine, or Biological Science. This arrangement should also strengthen our research base as well. These specialists from several academic units working with the "center" will also provide more of an interdisciplinary focus on youth development.

**8. Promotion and Tenure.** We will be working closely with the administration, both within the College and at the University level to make sure the promotion and tenure guidelines appropriately evaluate Extension faculty based upon their job responsibilities.

**9. Cultural and Ethnic Diversity in Clientele and Staff.** It is important for us to strengthen our efforts to become more of a culturally diverse organization so that we can reach out to a broader clientele. A year ago each college and department in the university including Extension was asked to submit a four-year affirmative action plan, and at about the same time, our organization was asked to submit a plan in response to an ES-USDA civil rights compliance review. Both contained a number of proposed actions and goals. Several of those have been initiated including increasing the number of minority faculty and female administrators. Progress has been made with both, but more remains to be done in initiating and achieving these and other actions and goals identified in the plans.

One of the actions includes the reactivation of an affirmative action committee. This is currently being done. The new members will be asked to implement the two plans and take other actions as appropriate. Further, I challenge each of you to look for opportunities and take actions that increase the cultural and ethnic diversity of our organization and clientele.

10. Commitment of CNRD. Concern was expressed that CNRD appears to be more of a supplemental program than a high priority mainstream program. Community and Natural Resource Development has been identified in the Long Range Plan as one of our four major program areas. Therefore, it is necessary that we increase our effort in CNRD. One way to accomplish this is to put more resources into this area. This we plan to do as we have additional funds. With limited resources, this will not happen overnight, however, I do believe that there are ways we can do some redirection that will allow us to increase our programming efforts in CNRD. We have already started discussions with the appropriate people to determine how we might accomplish this. We will continue these discussions and, would welcome your input.

I hope that this will give you an overview of my thinking concerning the organizational review process and recommendations for the future. We will keep you informed as we continue to bring closure to more of the Review Team recommendations. All of this will be discussed in more detail as we meet with you during the spring conferences.

I believe strongly in the Ohio Cooperative Extension Service. As I travel across this state, I receive very positive feedback about what you are doing and the impact your programs are making. We are going through a major transition at the present time, but I hope the changes that are made will help us become a more futuristic organization that develops research based educational programs that respond to the needs of people in the state of Ohio. I appreciate what you are doing and look forward to working with you in "making it happen" for the future.

Bobby D. Moser  
Director  
OCES

4/12/89

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APPENDIX XXXXII

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET - 3RD QUARTER REPORT

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees May 4, 1989  
(See page 1097)

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
3RD QUARTER REPORT

Summary of Proposed Resources  
(In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,590	1,190	.4%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,860	\$7,050	.8%
Regional Campuses	24,240	24,580	340	1.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$990,160	\$997,550	\$7,390	.7%

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
3RD QUARTER REPORT

Summary of Proposed Uses  
(In Thousands of Dollars)

	Budgeted 1988-89	Estimated 1988-89	\$ Increase	% Increase
Central Campus				
Unrestricted General Funds	\$420,590	\$420,950	\$360	.1%
Earnings Operations	322,400	323,580	1,180	.4%
Restricted Funds	192,820	198,320	5,500	2.9%
Total Central Campus	\$935,810	\$942,850	\$7,040	.8%
Regional Campuses	23,920	24,250	330	1.4%
OARDC	30,110	30,110	0	.0%
Grand Totals	\$989,840	\$997,210	\$7,370	.7%

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
3RD QUARTER REPORT

All Funds Resources Summary  
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
State Appropriations	\$247.97	\$ .00	\$35.61	\$283.58	\$284.72
Student Fees	140.14	5.41	.00	145.55	144.55
Other Resources					
Federal Grants and Contracts	16.67	.00	79.50	96.17	94.03
Ohio Grants and Contracts	.41	.00	13.65	14.06	12.05
Local Grants and Contracts	.70	.00	11.86	12.56	12.44
Private Gifts and Grants	3.73	.00	50.00	53.73	51.00
Endowment Income	1.40	.00	7.70	9.10	9.10
Department and University Services	.41	27.02	.00	27.43	27.43
Auxiliary Sales & Charges	.02	81.33	.00	81.35	82.09
Hospital Sales & Services	.00	201.93	.00	201.93	201.35
Other Sources	9.50	7.90	.00	17.40	17.05
Total Other Resources	\$32.84	\$318.18	\$162.71	\$513.73	\$506.54
Total Central Campus	\$420.95	\$323.59	\$198.32	\$942.86	\$935.81
Regional Campuses					
State Appropriations	11.91	.00	.02	11.93	12.18
Student Fees	8.91	.25	.00	9.16	8.82
Other Resources	.54	.87	2.08	3.49	3.24
Total Regional Campuses	\$21.36	\$1.12	\$2.10	\$24.58	\$24.24
OARDC					
State Appropriations	.00	.00	19.54	19.54	19.54
Federal	.00	.00	6.65	6.65	6.65
All Other	.00	1.60	2.32	3.92	3.92
Total OARDC	\$ .00	\$1.60	\$28.51	\$30.11	\$30.11
Total University					
State Appropriations	259.88	.00	55.17	315.05	316.44
Student Fees	149.05	5.66	.00	154.71	153.37
Other Resources	33.38	320.65	173.76	527.79	520.35
Total University	\$442.31	\$326.31	\$228.93	\$997.55	\$990.16



THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
3RD QUARTER REPORT

All Funds Uses Summary  
(In Millions of Dollars)

	General Funds	Earnings Operations	Restricted Funds	Estimated 1988-89	Budgeted 1988-89
Central Campus					
Educational & General	\$420.01	\$32.43	\$184.13	\$636.57	\$630.71
Auxiliary Enterprises					
Residence & Dining Halls	.00	37.45	.00	37.45	36.42
Intercollegiate Athletics	.00	17.10	3.60	20.70	20.70
Other Auxiliaries	.94	29.90	.00	30.84	31.02
Total Auxiliaries	\$ .94	\$84.45	\$3.60	\$88.99	\$88.14
University Hospitals	.00	206.70	10.59	217.29	216.96
Total Central Campus	\$420.95	\$323.58	\$198.32	\$942.85	\$935.81
Regional Campuses					
Agricultural Technical Institute	4.75	.78	.63	6.16	5.83
Lima Campus	4.48	.12	.43	5.03	5.03
Mansfield Campus	4.04	.08	.36	4.48	4.53
Marion Campus	3.60	.03	.42	4.05	3.88
Newark Campus	4.16	.12	.26	4.54	4.66
Total Regional Campuses	\$21.03	\$1.12	\$2.10	\$24.25	\$23.92
OARDC	.00	1.60	28.51	30.11	30.11
Total Uses	\$441.98	\$326.30	\$228.93	\$997.21	\$989.84

THE OHIO STATE UNIVERSITY  
1988-89 CURRENT FUNDS BUDGET  
3RD QUARTER REPORT

Distribution of 1988-89 Resources  
Central Campus, Regional Campuses & OARDC  
(In Thousands of Dollars)

	All Funds	Percent of Total	Unrestr. General(4)	Percent of Total
State Appropriations	\$315,050	31.6%	\$259,880	58.8%
Federal Grants & Contracts	102,820	10.3%	16,670	3.8%
Other Government Sources	26,620	2.7%	1,110	.3%
Student Fees				
Instructional (1)	149,050	14.9%	149,050	33.7%
Non-Credit Instruction	5,660	.6%	0	.0%
Hospitals Sales / Services	201,930	20.2%	0	.0%
Other Sales / Services (2)	108,780	10.9%	430	.1%
Private Gifts & Grants	53,730	5.4%	3,730	.8%
Endowment	9,100	.9%	1,400	.3%
Other Sources (3)	24,810	2.5%	10,040	2.3%
Total	\$997,550	100.0%	\$442,310	100.0%

- (1) Includes instructional, general, non-resident, and misc. other fees.
- (2) Includes departmental sales and services and auxiliary income such as residence and dining hall fees and parking fees.
- (3) Includes temporary investments, prior years' earnings, rental income, etc.
- (4) Excludes all earnings and restricted funds.

APPENDIX XXXXIII

WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS  
JANUARY - MARCH 1989

Presented to the Fiscal Affairs Committee and  
Adopted by the Board of Trustees May 4, 1989  
(See page 1097)

**WAIVERS OF COMPETITIVE BIDDING REQUIREMENTS  
JANUARY-MARCH, 1989**

During the period covered, the Vice President for Business and Administration, at the requests of the departments making the purchases and upon the recommendation of the Purchasing Department, granted 29 waivers of competitive bidding requirements. Annual purchases authorized by these waivers total approximately \$2,652,700.00. The purchases included:

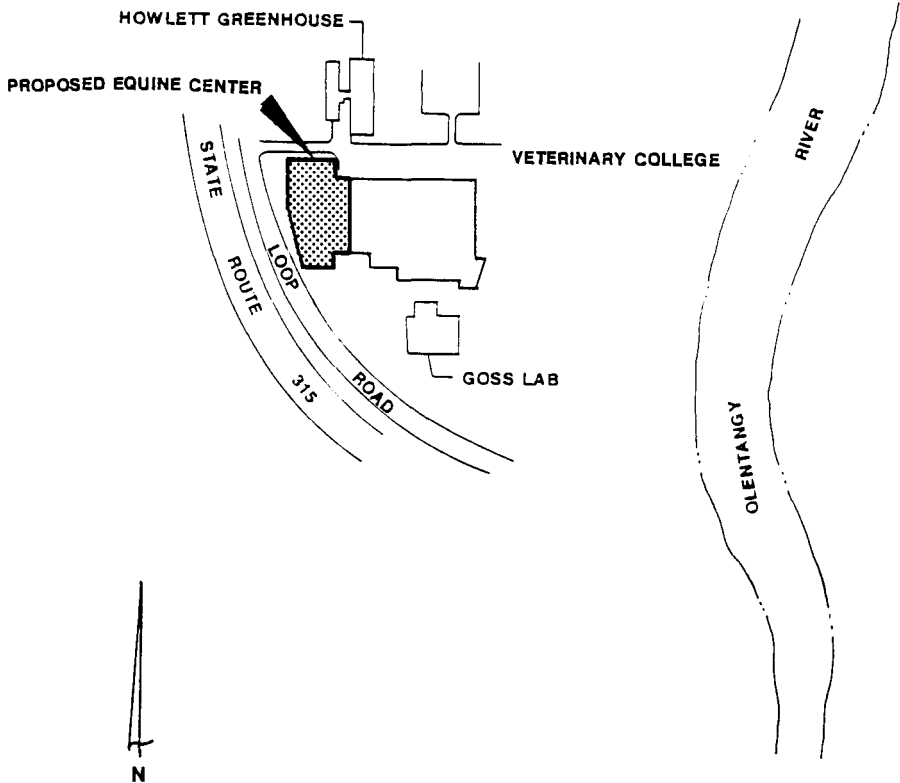
Radio & TV Programs	\$750,000	(1 waiver)
Hospital Equipment & Services	602,740	(4 waivers)
Emergency Helicopter Transport Services	515,000	(1 waiver)
Hospital Advertising	175,000	(1 waiver)
Professional Medical Services	122,000	(2 waivers)
Conference Facilities	160,000	(2 waivers)
Teaching & Research Equipment & Services	131,344	(8 waivers)
Historic Clothing	87,400	(2 waivers)
Fundraising Consulting & Services	50,955	(3 waivers)
Administrative Support Services & Equipment	46,930	(4 waivers)
Artists' Services	11,336	(1 waiver)

APPENDIX XXXXIV

EQUINE CENTER  
FOOD FACILITY FREEZER ADDITION -  
STORES AND RECEIVING BUILDING

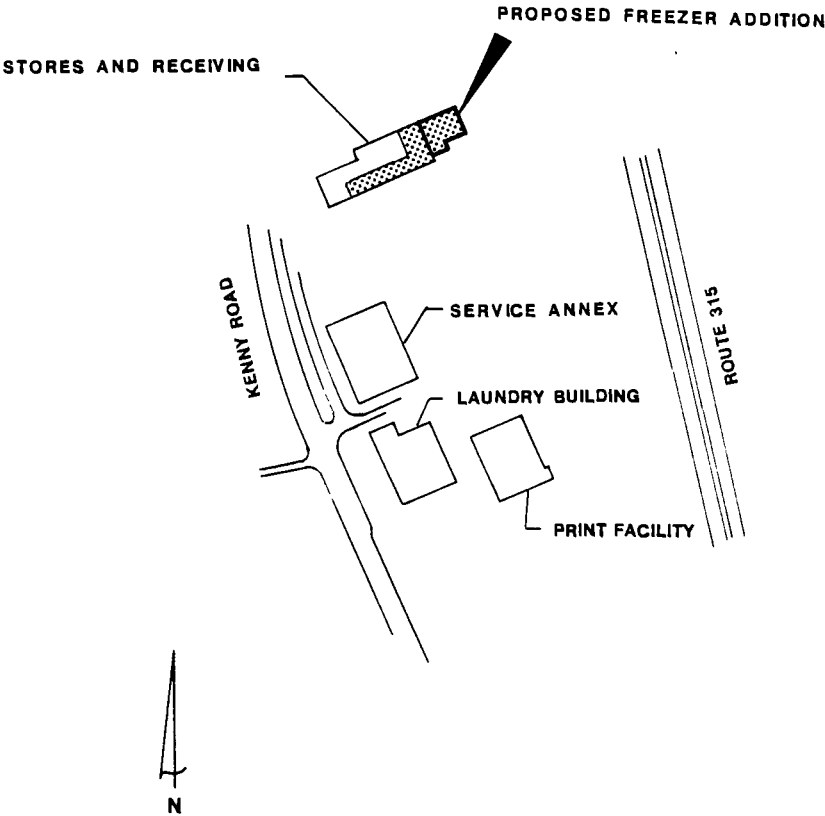
Adopted by the Board of Trustees May 4, 1989  
(See page 1116)

# EQUINE CENTER



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# FOOD FACILITY FREEZER ADDITION STORES AND RECEIVING BUILDING



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

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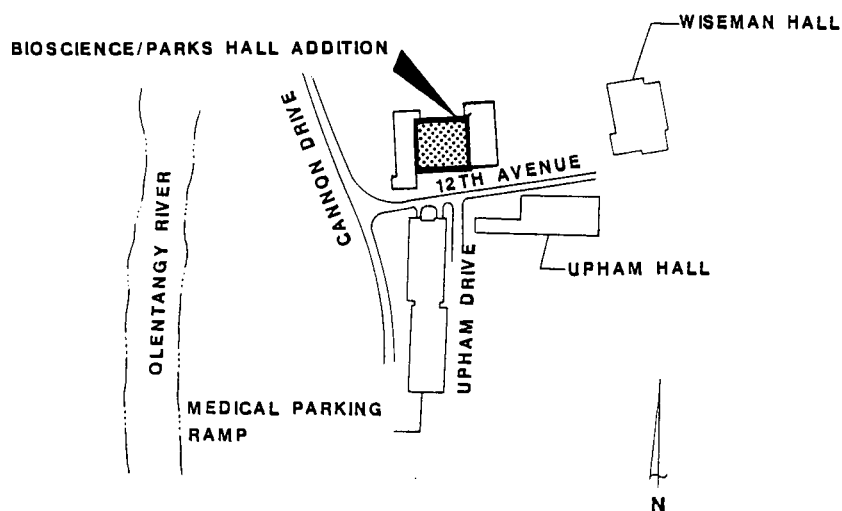
APPENDIX XXXXV

PROJECTS FUNDED BY AMENDED HOUSE BILL 810

Adopted by the Board of Trustees May 4, 1989  
(See page 1118)

# CAPITAL APPROPRIATION PROJECTS

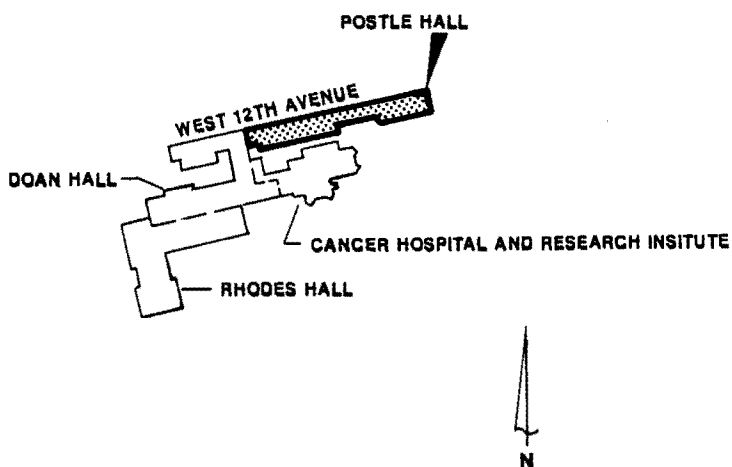
## BIOSCIENCE/PARKS HALL ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# **CAPITAL APPROPRIATION PROJECTS**

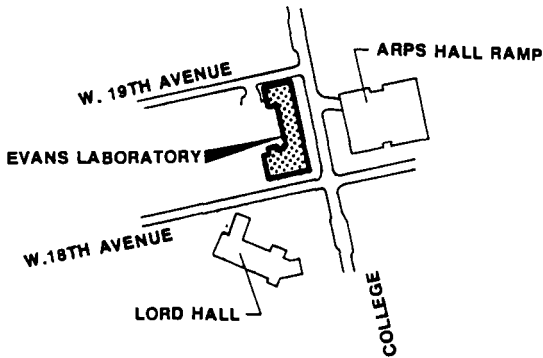
## **DENTAL INSTRUCTIONAL LAB IMPROVEMENTS**



**OFFICE OF BUSINESS AND ADMINISTRATION**  
**MAY 4, 1989**

# CAPITAL APPROPRIATION PROJECTS

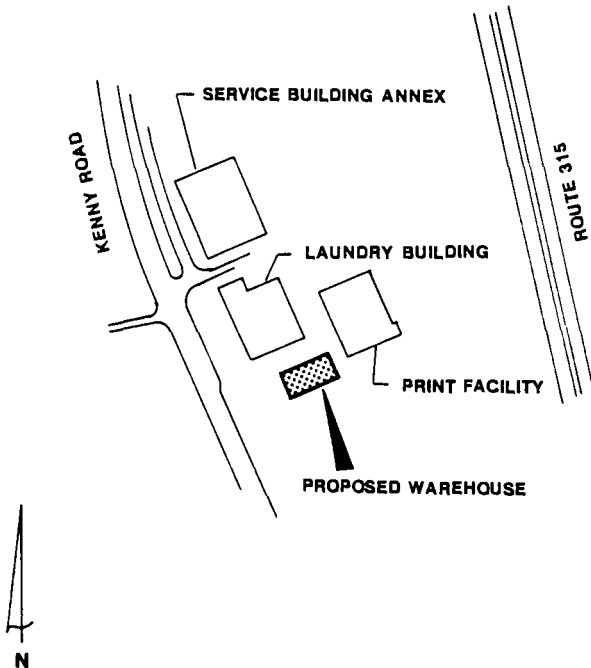
## EVANS LABORATORY ADDITION



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

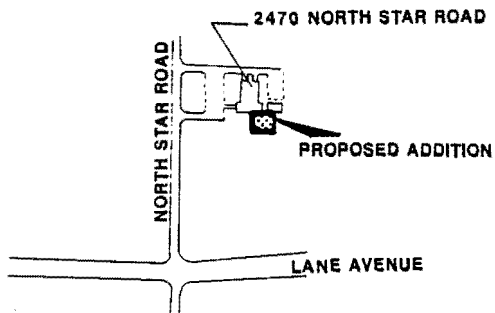
# CAPITAL APPROPRIATION PROJECTS

## LIBRARY BOOK WAREHOUSE



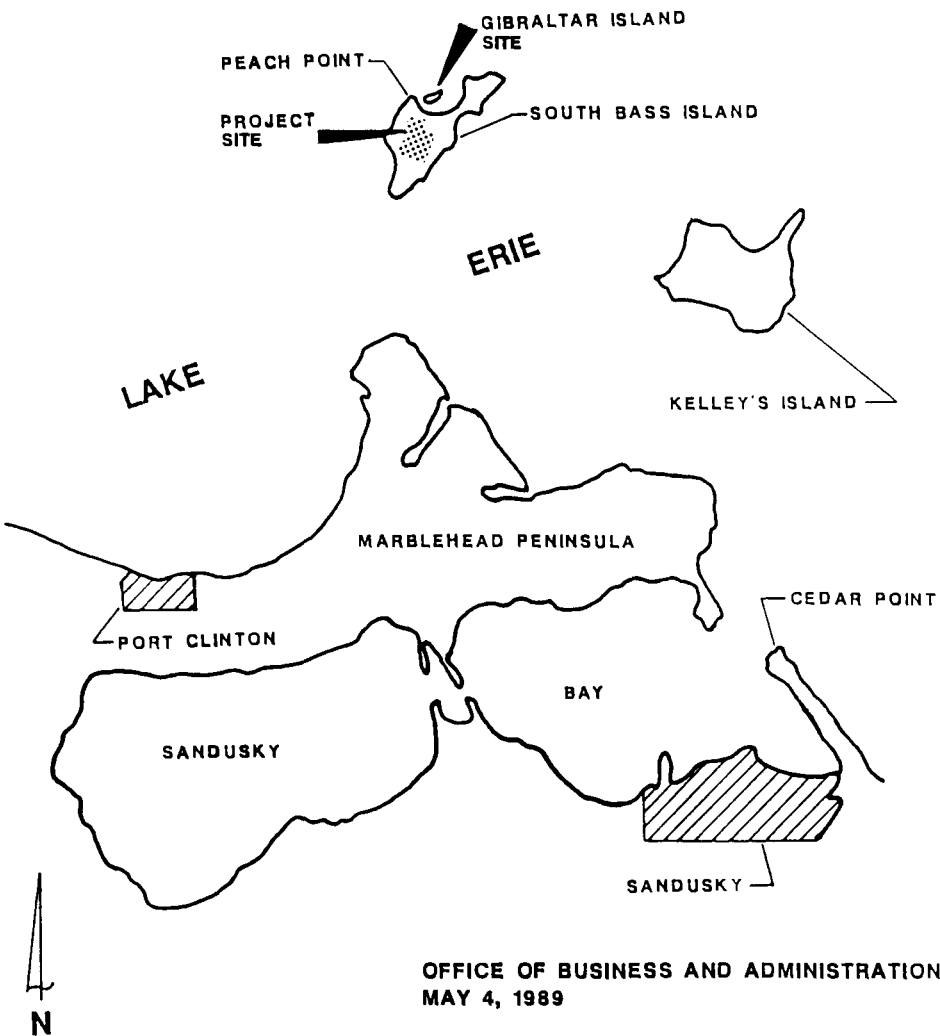
OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS NORTH STAR BUILDING ADDITION

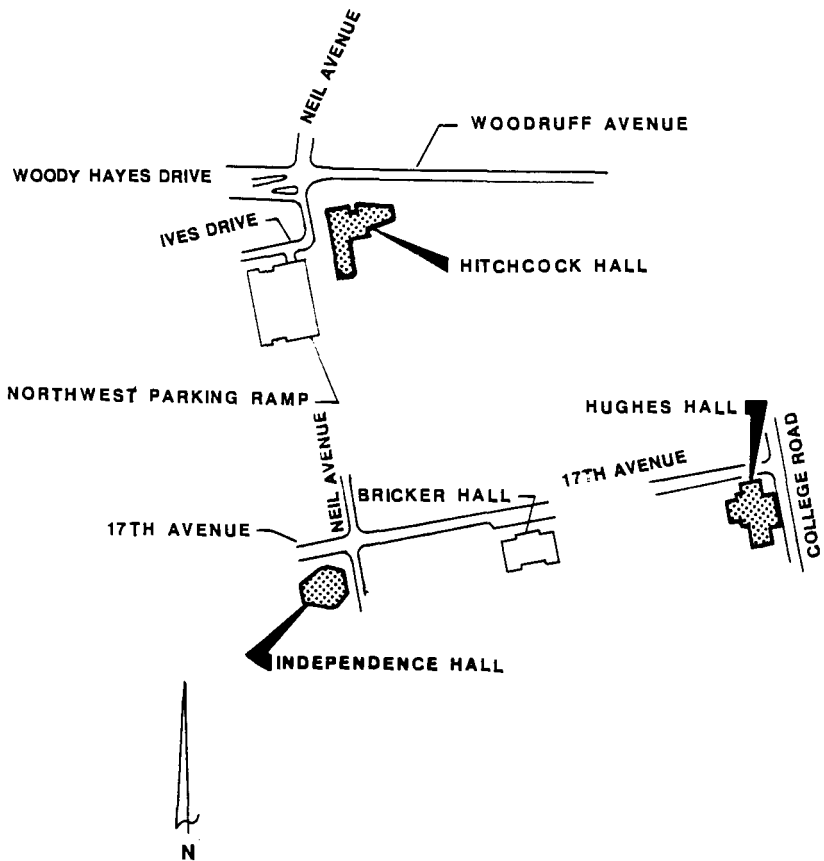


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

**CAPITAL APPROPRIATIONS PROJECTS  
SEAGRANTS SCHOOL PROJECTS  
SOUTH BASS AND GIBRALTAR ISLANDS**



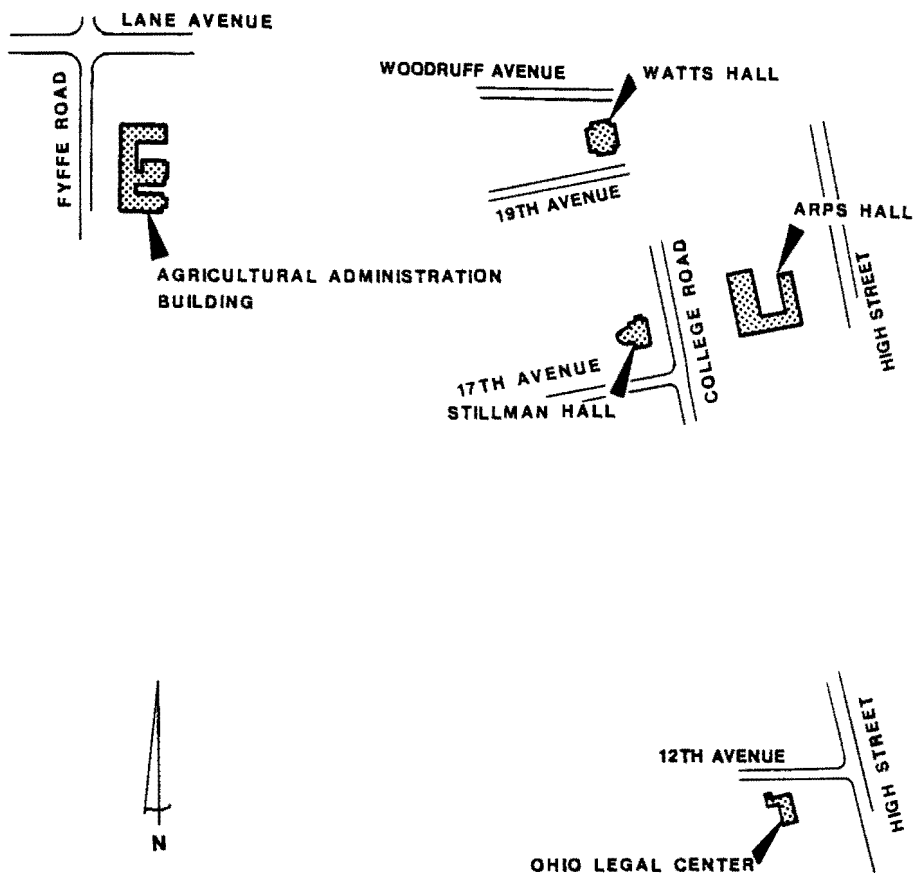
# CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION CLASSROOM IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATIO  
MAY 4, 1989



# CAPITAL APPROPRIATION PROJECTS BASIC RENOVATION ROOF REPLACEMENTS

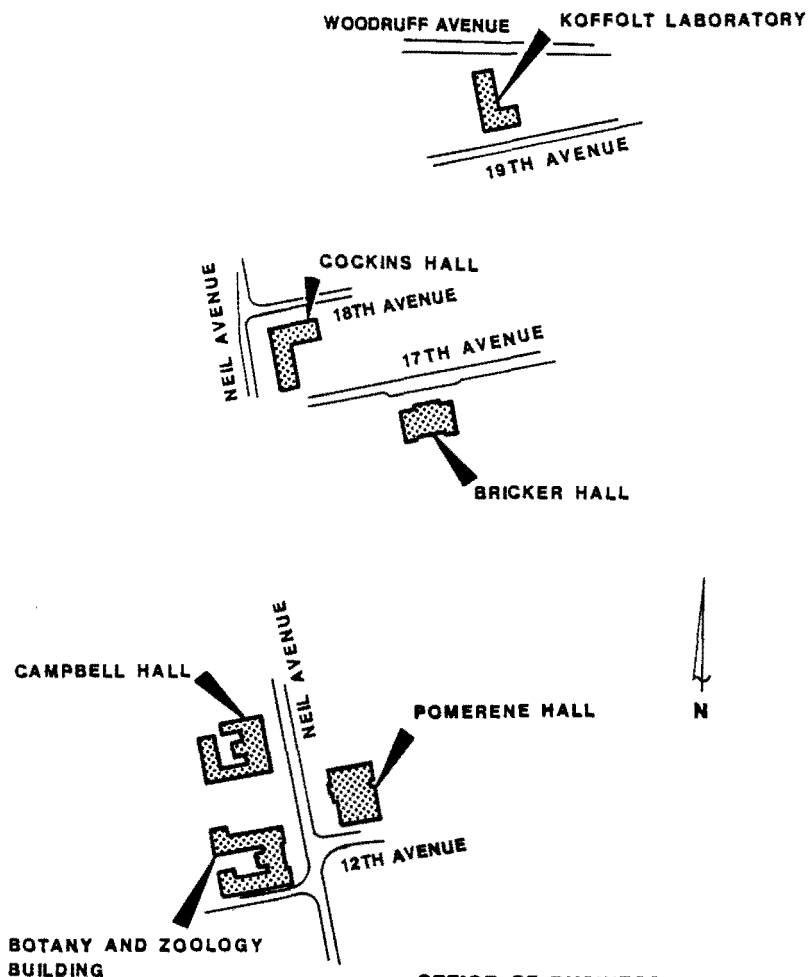


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

## MASONRY IMPROVEMENTS

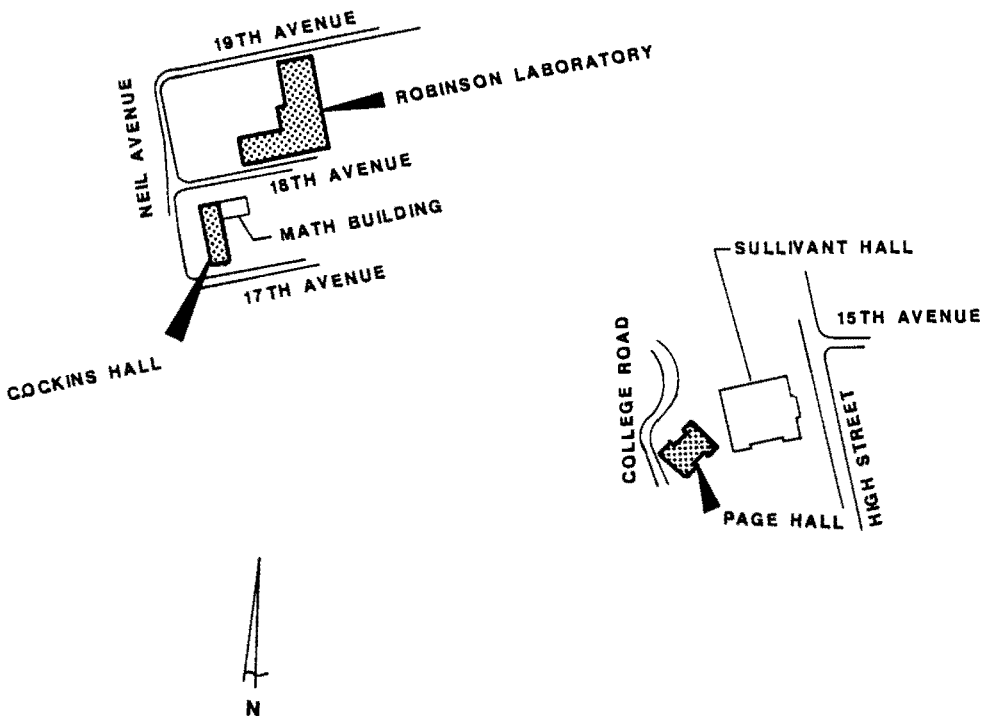


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

### WINDOW REPLACEMENTS

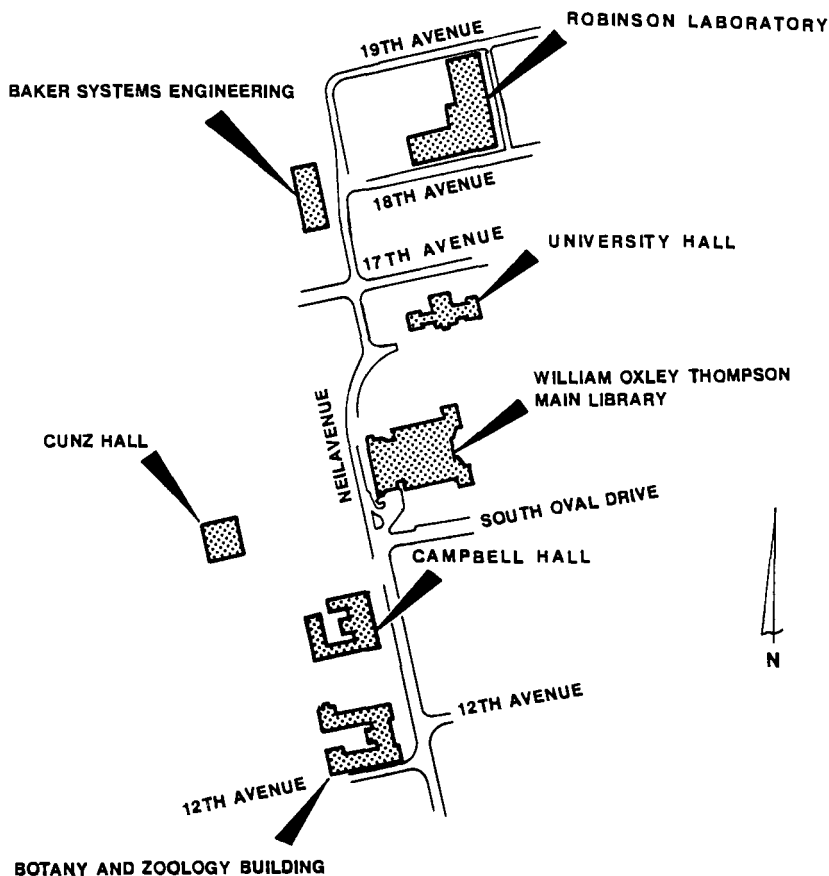


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

### CAMPUS ENERGY CONTROLS ( HVAC SYSTEMS )

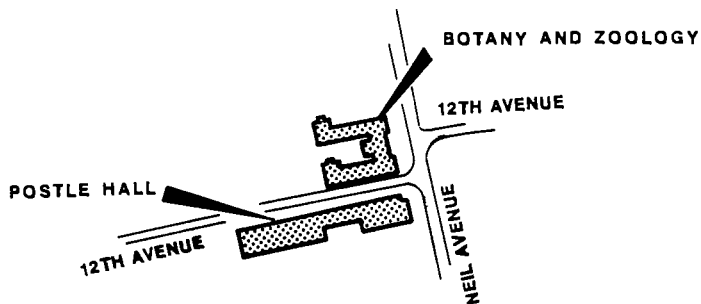
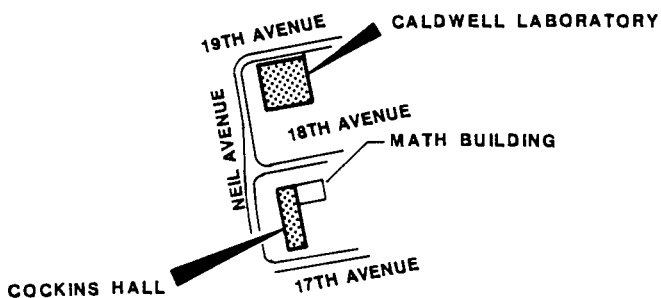


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS

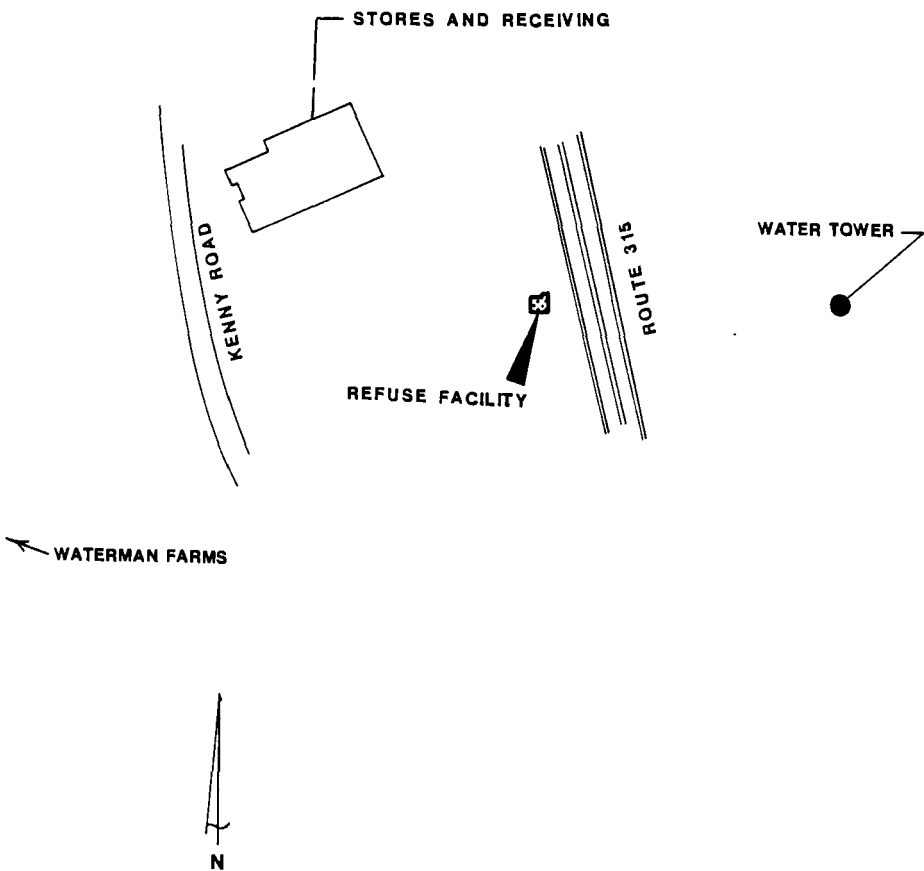
## BASIC RENOVATION

### ELEVATOR REPLACEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

**CAPITAL APPROPRIATION PROJECTS  
BASIC RENOVATION  
REFUSE FACILITY UPGRADING**

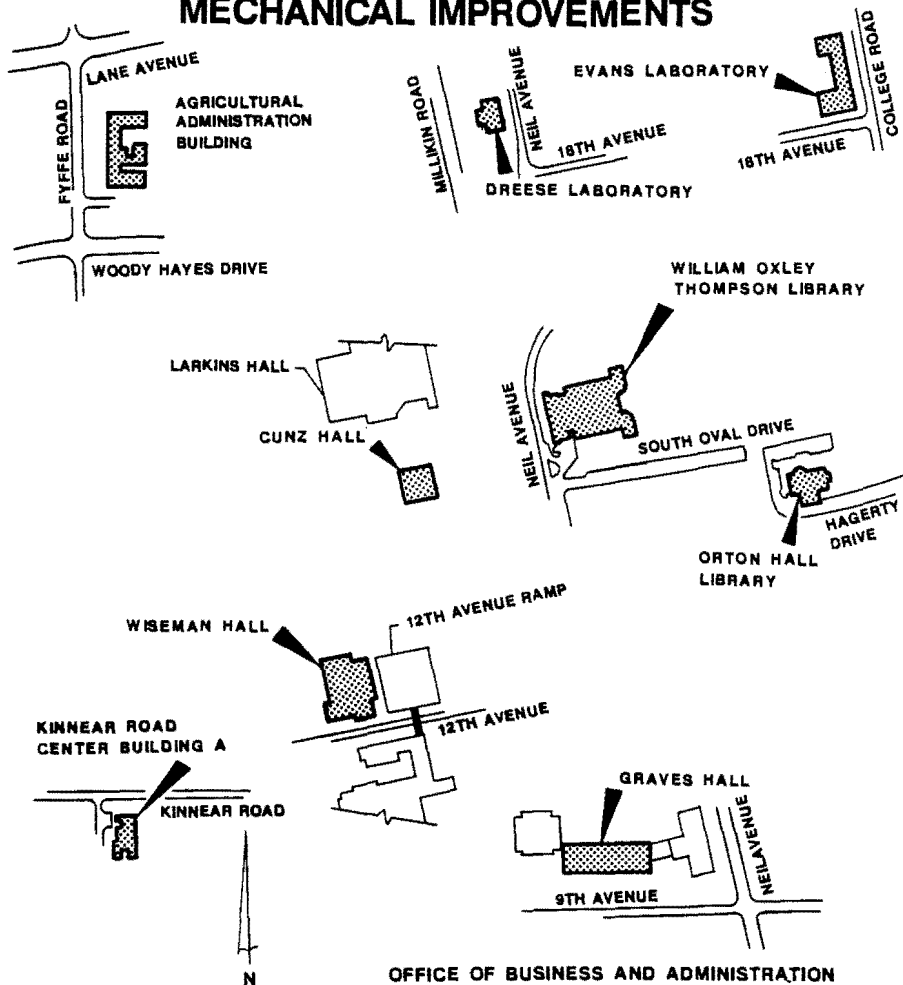


**OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989**

# CAPITAL APPROPRIATION PROJECTS

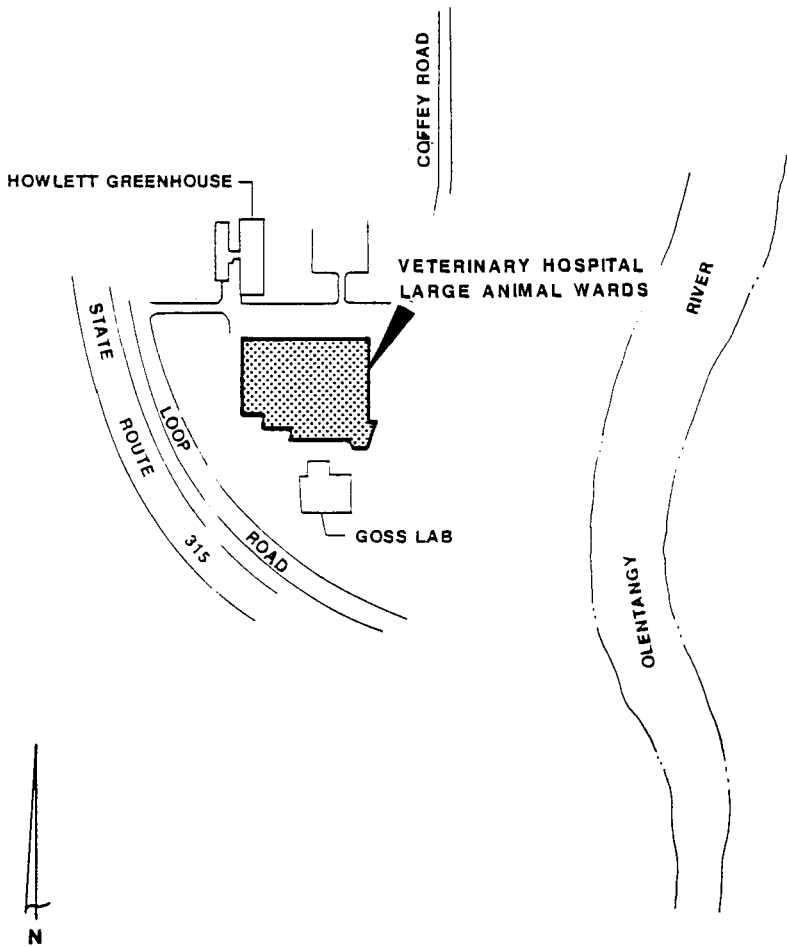
## BASIC RENOVATION

## MECHANICAL IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

**CAPITAL APPROPRIATION PROJECTS  
BASIC RENOVATION  
VETERINARY HOSPITAL SPRINKLER SYSTEM**



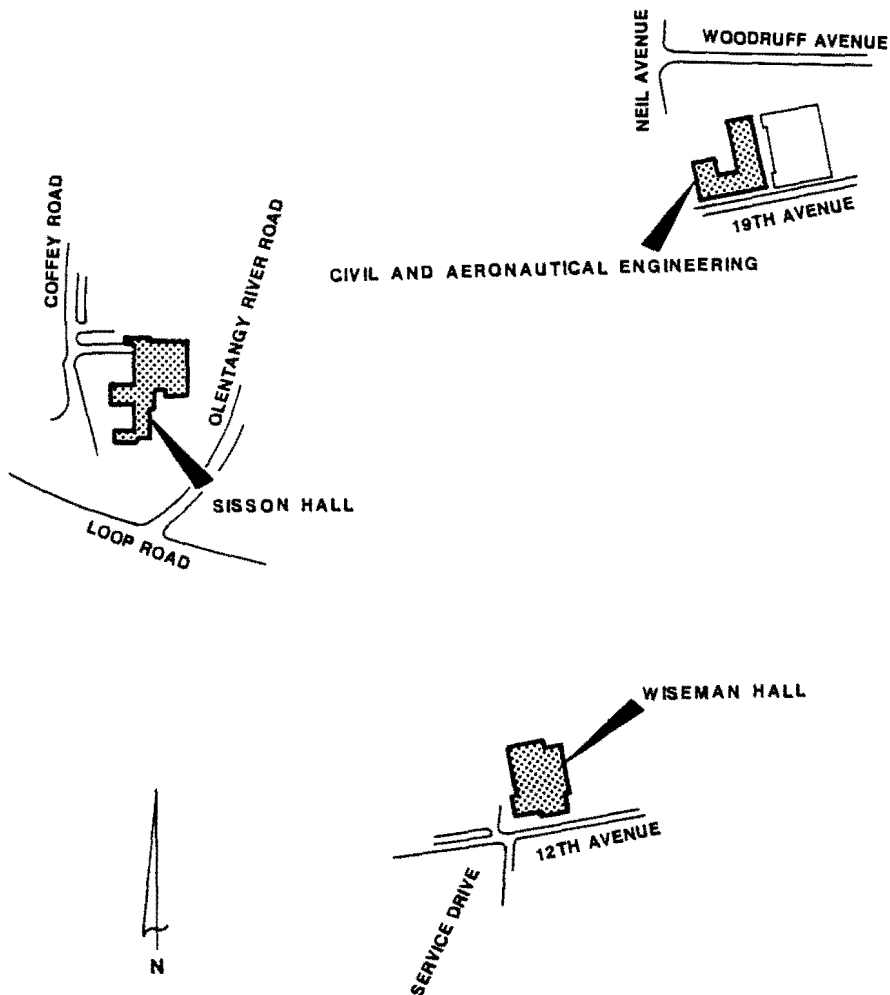
**OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989**



# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

### CHILLER REPLACEMENTS

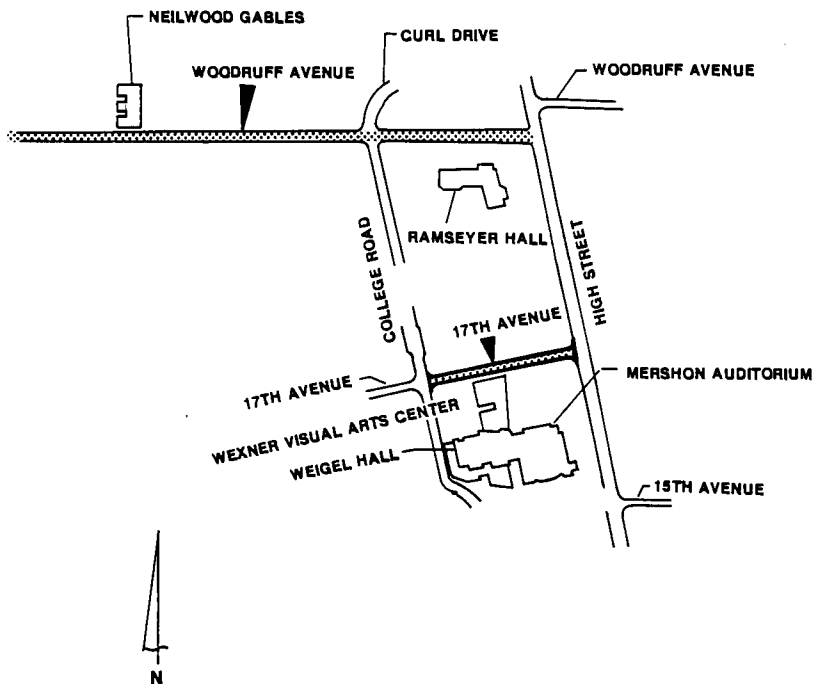


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

## SITE RENOVATIONS

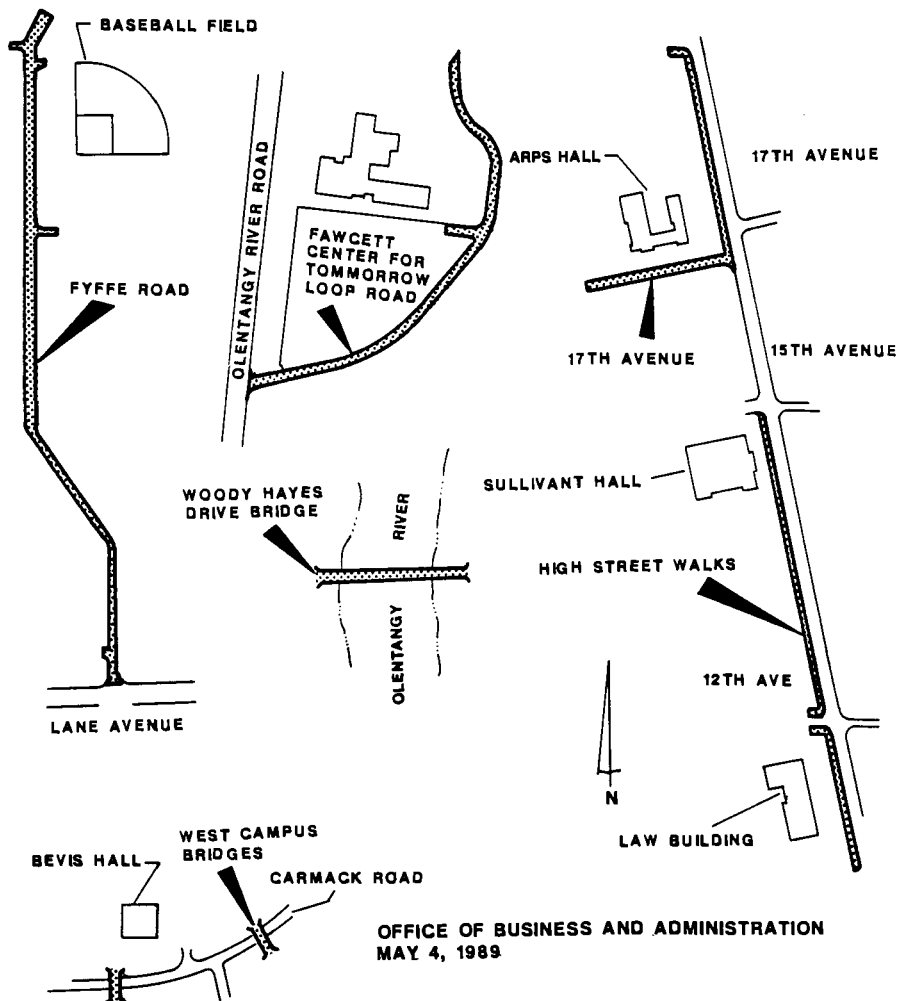


OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

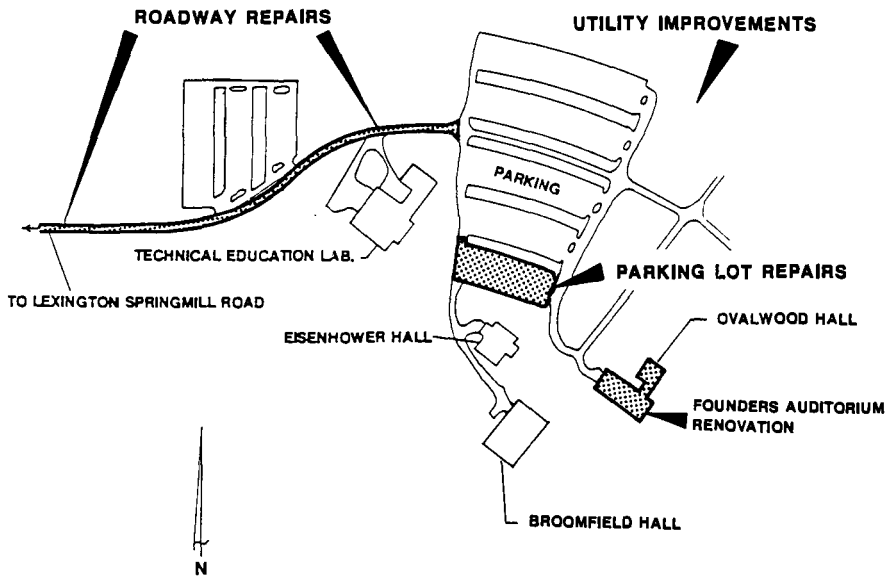
# CAPITAL APPROPRIATION PROJECTS

## BASIC RENOVATION

## BRIDGE AND STREET IMPROVEMENTS

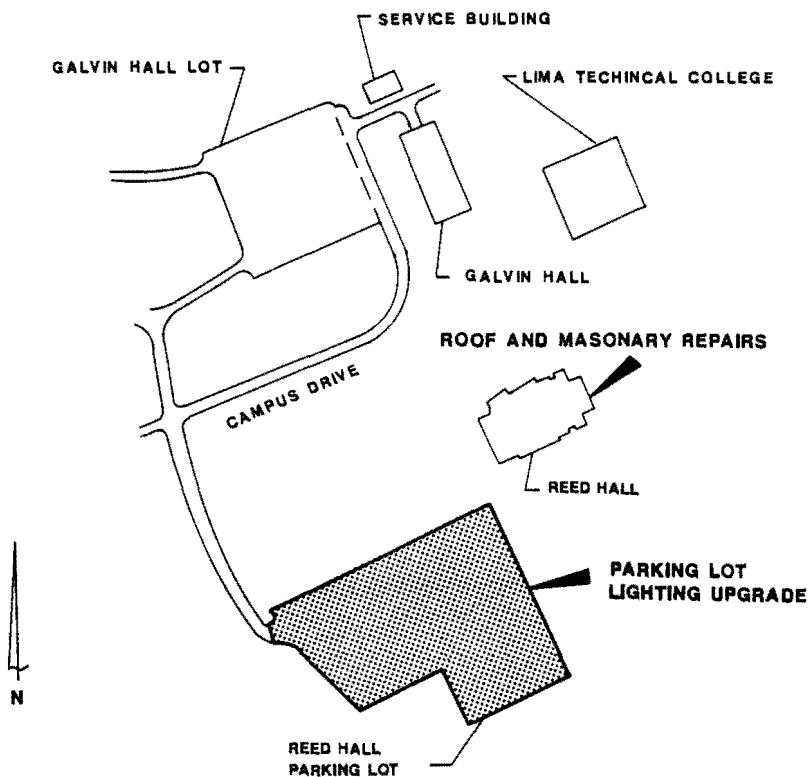


# BASIC RENOVATION PROJECTS REGIONAL CAMPUSES MANSFIELD



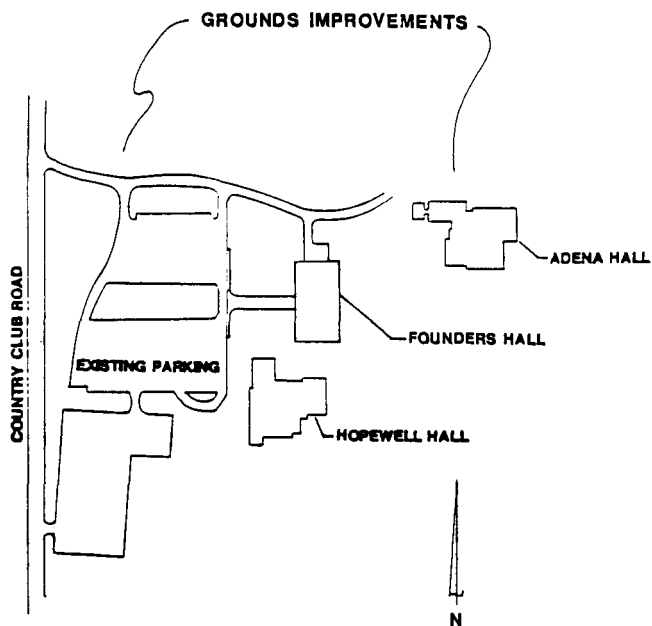
OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# BASIC RENOVATION PROJECTS REGIONAL CAMPUSES LIMA



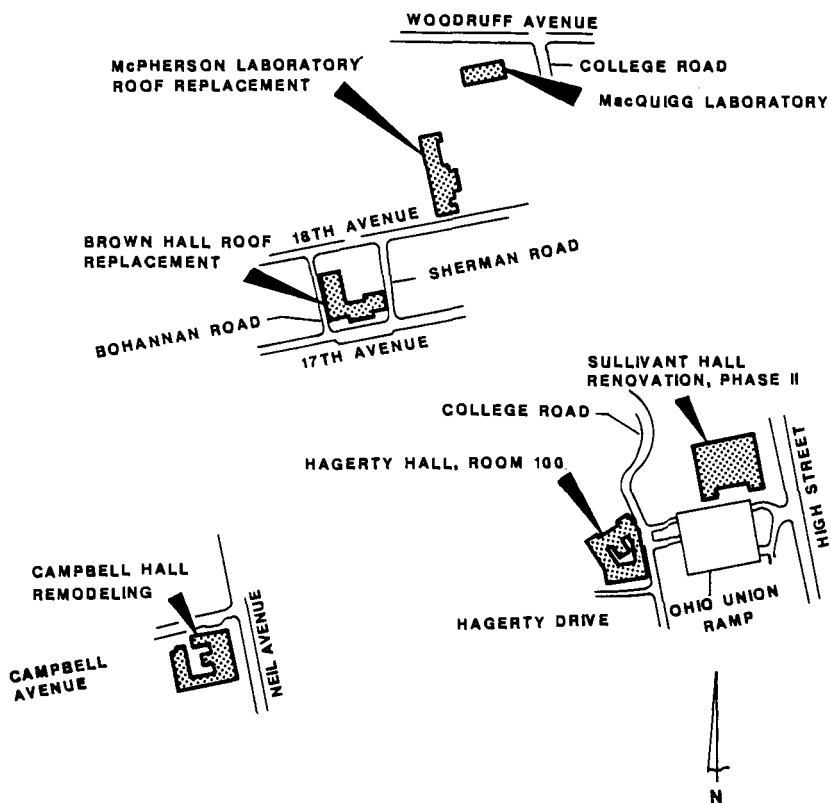
OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

# **BASIC RENOVATION PROJECTS REGIONAL CAMPUSES NEWARK**



**OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989**

# CAPITAL APPROPRIATIONS PROJECTS SUPPLEMENTAL RENOVATIONS



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

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APPENDIX XXXXVI

HAMILTON HALL RENOVATION  
POSTLE HALL ORAL BIOLOGY LABORATORY  
ST. JOHN ARENA - ROOF REPLACEMENT

Adopted by the Board of Trustees May 4, 1989  
(See page 1128)

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## HAMILTON HALL RENOVATION

### Tabulation of Bids

Bids received by the Ohio Department of Administrative Services, Division of Public Works, on January 19, 1989, and March 30, 1989. Bids opened by Janet Sutton and tabulated by Danielle Braden. Awards indicated with an "\*\*".

General Contract	Estimate	Messer *	Smoot	Shook	Setterlin
Base Bid	\$6,618,311.00	\$4,834,000.00	\$4,824,000.00	\$4,947,000.00	\$4,980,000.00
Alt. G-1 (Cold Room 132)	\$29,600.00	\$22,000.00	\$20,500.00	\$18,500.00	\$18,700.00
Alt. G-3 (Cold Room 141)	\$29,600.00	\$22,000.00	\$20,500.00	\$18,500.00	\$18,700.00
Alt. G-4 (Pune Hoods A)	\$8,750.00	\$6,000.00	\$5,000.00	\$4,500.00	\$4,500.00
Alt. G-5 (Pune Hoods B)	\$82,848.00	\$31,000.00	\$64,500.00	\$32,000.00	\$31,300.00
Total General Contract (Includes all Alternates)	\$6,769,109.00	\$4,915,000.00	\$4,934,500.00	\$5,020,500.00	\$5,053,200.00
	Knowlton	Lincoln	Kokosing	Dunlop & Johnston	Dugan & Meyers
Base Bid	\$5,050,000.00	\$5,303,000.00	\$5,312,940.00	\$5,525,000.00	\$5,596,000.00
Alt. G-1 (Cold Room 132)	\$19,200.00	\$19,150.00	\$18,274.00	\$17,500.00	\$19,000.00
Alt. G-3 (Cold Room 141)	\$19,200.00	\$19,150.00	\$18,744.00	\$17,500.00	\$19,000.00
Alt. G-4 (Pune Hoods A)	\$4,600.00	\$4,700.00	\$4,637.00	\$4,500.00	\$4,700.00
Alt. G-5 (Pune Hoods B)	\$32,100.00	\$32,800.00	\$32,537.00	\$31,000.00	\$32,800.00
Total General Contract (Includes all Alternates)	\$5,125,100.00	\$5,378,800.00	\$5,387,132.00	\$5,595,500.00	\$5,671,500.00
Fire Protection Contract	Estimate	Franklin Fire Sprinkler *	Grunau Fire Protection	Capital Fire Protection	Culligan Fire Protection
Base Bid - No Alternates	\$173,670.00	\$171,436.00	\$189,288.00	\$210,377.00	\$244,000.00
Plumbing Contract	Estimate	J. A. Croson * +	Radico		
Base Bid	\$1,160,604.00	\$1,519,900.00	\$1,526,000.00		
Alt. P-1 (Cold Room 132)	\$1,000.00	\$800.00	\$1,000.00		
Alt. P-2 (Cold Room 141)	\$1,000.00	\$800.00	\$1,000.00		
Alt. P-3 (Pune Hoods A)	\$1,700.00	\$600.00	\$700.00		
Alt. P-4 (Pune Hoods B)	\$13,600.00	\$4,800.00	\$5,700.00		
Total Plumbing Contract (Includes all Alternates)	\$1,177,904.00	\$1,526,900.00	\$1,534,400.00		

+ Plumbing Contract is in excess of filed estimate of costs; however the total price of all contracts is within 10% of the total estimate of cost and is recommended for award as provided by Section 153.12 of the Revised Code.

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Continued)

HAMILTON HALL RENOVATION (Continued)

Tabulation of Bids (Continued)

HVAC Contract	Estimate	J. A. Croson *	Julian Speer	Limbach	J. A. Guy
Base Bid	\$4,067,065.00	\$3,255,000.00	\$3,566,000.00	\$3,578,200.00	\$3,570,000.00
Alt. H-1 (Steam Service)	\$17,500.00	\$14,500.00	\$12,300.00	\$15,747.00	\$16,300.00
Alt. H-2 (Cold Room 132)	\$1,000.00	\$700.00	\$500.00	\$800.00	\$200.00
Alt. H-3 (Cold Room 141)	\$1,000.00	\$700.00	\$500.00	\$660.00	\$1,700.00
Alt. H-4 (Fume Hoods A)	\$6,000.00	\$4,700.00	\$5,000.00	\$3,270.00	\$6,700.00
Alt. H-5 (Fume Hoods B)	\$48,000.00	\$35,300.00	\$38,000.00	\$26,800.00	\$40,000.00
Total HVAC Contract (Includes Alternates H-1 through H-5)	\$4,140,565.00	\$3,310,900.00	\$3,622,300.00	\$3,625,477.00	\$3,634,900.00

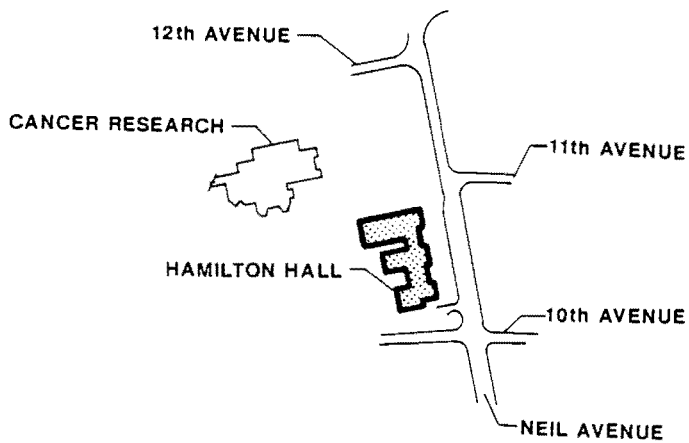
Alternates not taken:

Alt. H-6 (Andover Controls)	\$0.00	\$17,000.00	\$0.00	\$20,000.00	\$16,000.00
Alt. H-7 (Berber Controls)	\$0.00	\$43,000.00	\$39,800.00	\$23,700.00	\$44,000.00

Electric Contract	Estimate	Royal *	Colgan	Buckeye	Electric Power
Base Bid	\$1,754,525.00	\$1,246,600.00	\$1,358,550.00	\$1,423,000.00	\$1,975,500.00
Alt. E-1 (Cold Room 132)	(\$350.00)	\$0.00	\$230.00	\$0.00	\$1,820.00
Alt. E-2 (Cold Room 141)	(\$350.00)	\$0.00	\$230.00	\$0.00	\$2,350.00
Alt. E-3 (Fume Hoods A)	\$2,500.00	\$520.00	\$1,286.00	\$100.00	\$5,650.00
Alt. E-4 (Fume Hoods B)	\$20,000.00	\$2,500.00	\$11,031.00	\$500.00	\$13,300.00
Total Electric Contract (Includes all Alternates)	\$1,776,325.00	\$1,249,620.00	\$1,371,327.00	\$1,423,600.00	\$1,998,620.00

Finishes Contract	Estimate	Cargile *	Miles	Wise	Minority Allied/ Shook
Base Bid	\$1,500,000.00	\$1,360,000.00	\$1,438,000.00	\$1,443,000.00	\$1,524,000.00
Alt. F-1 (Sheet Vinyl Floor)	\$159,562.00	\$130,000.00	\$95,000.00	\$118,000.00	\$130,000.00
Total Finishes Contract (Includes all Alternates)	\$1,659,562.00	\$1,490,000.00	\$1,533,000.00	\$1,561,000.00	\$1,654,000.00

# HAMILTON HALL RENOVATION



REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Continued)

POSTLE HALL ORAL BIOLOGY LABORATORY

Tabulation of Bids

Bids received by The Ohio State University on March 16, 1989. Bids opened by Tamara Bell and tabulated by Martin Bricker. Awards indicated with an \*\*\*.

General Contract	Estimate	Ed Ross *	Farrell	Functional Development	Waller & Lund
Base Bid	\$146,000.00	\$137,470.00	\$132,200.00	\$139,539.00	\$152,000.00
Alt. G-1 (Metal Casework)	\$30,000.00	\$7,675.00	\$13,300.00	\$18,741.00	\$10,000.00
Alt. G-2 (New Ceiling)	\$1,000.00	\$900.00	\$1,800.00	\$1,025.00	\$1,000.00
Total General Contract (Includes all Alternates)	\$177,000.00	\$146,045.00	\$147,300.00	\$159,305.00	\$163,000.00
	M & P	Good Home Maintenance	Gutknecht	BS Contractors	Cody Zeigler
Base Bid	\$146,735.00	\$143,328.00	\$151,301.00	\$139,865.00	\$143,000.00
Alt. G-1 (Metal Casework)	\$15,050.00	\$20,688.00	\$13,768.00	\$18,425.00	\$22,000.00
Alt. G-2 (New Ceiling)	\$2,160.00	\$607.00	\$1,326.00	\$9,865.00	\$9,000.00
Total General Contract (Includes all Alternates)	\$163,945.00	\$164,623.00	\$166,395.00	\$168,155.00	\$174,000.00
	Hurley	Yadkin	Cargile	Altman	Williamson
Base Bid	\$155,850.00	\$161,000.00	\$160,597.00	\$153,135.00	\$166,200.00
Alt. G-1 (Metal Casework)	\$17,400.00	\$12,679.00	\$15,000.00	\$23,387.00	\$12,869.00
Alt. G-2 (New Ceiling)	\$850.00	\$1,350.00	\$1,000.00	\$650.00	\$300.00
Total General Contract (Includes all Alternates)	\$174,100.00	\$175,029.00	\$176,597.00	\$177,172.00	\$179,369.00
	R. D. Rogers	Scherl-Wilson			
Base Bid	\$154,493.00	\$174,900.00			
Alt. G-1 (Metal Casework)	\$28,065.00	\$15,000.00			
Alt. G-2 (New Ceiling)	\$2,275.00	\$3,000.00			
Total General Contract (Includes all Alternates)	\$184,833.00	\$192,900.00			

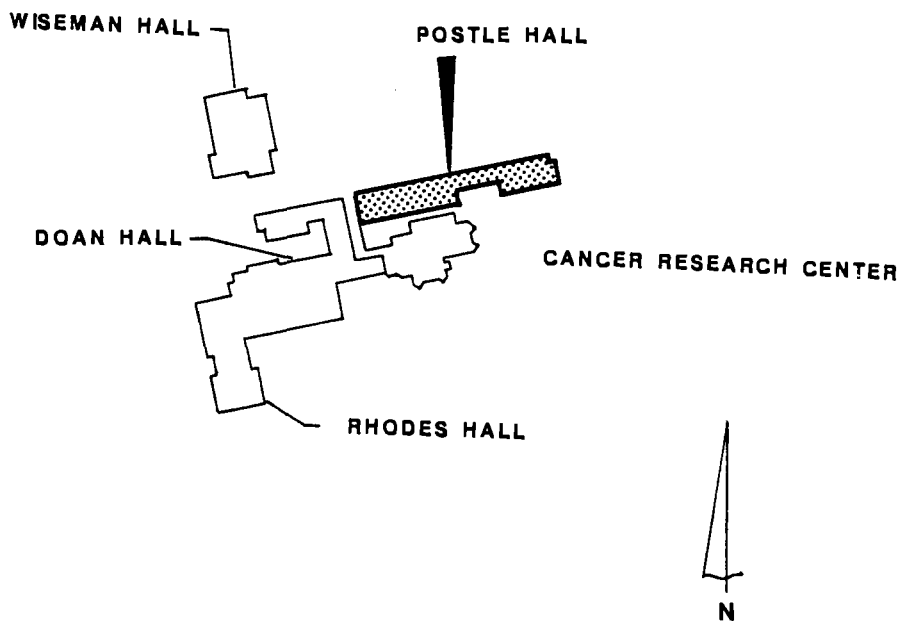
REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Continued)

POSTLE HALL ORAL BIOLOGY LABORATORY (Continued)

Tabulation of Bids (Continued)

Plumbing Contract	Estimate	Marco *	Westland	Radico	Farber
Base Bid - No Alternates	\$15,000.00	\$18,370.00	\$19,800.00	\$20,800.00	\$23,700.00
HVAC Contract	Estimate	J. A. Guy *	Farber	Central	Radico
Base Bid - No Alternates	\$115,000.00	\$122,300.00	\$125,300.00	\$144,600.00	\$146,200.00
Electric Contract	Estimate	Frush & Homan *	Power National	Reco	Petter
Base Bid - No Alternates	\$37,000.00	\$36,701.00	\$38,743.00	\$40,806.00	\$43,200.00
	Goodin	Jess Howard	Jade	Romanoff	Altech
Base Bid - No Alternates	\$43,500.00	\$44,400.00	\$45,978.00	\$46,800.00	\$47,680.00
	Electric Power	Claggett	Claypool	States	
Base Bid - No Alternates	\$49,380.00	\$56,165.00	\$56,500.00	\$72,795.00	

# POSTLE HALL ORAL BIOLOGY LABORATORY



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Continued)

ST. JOHN ARENA - ROOF REPLACEMENT

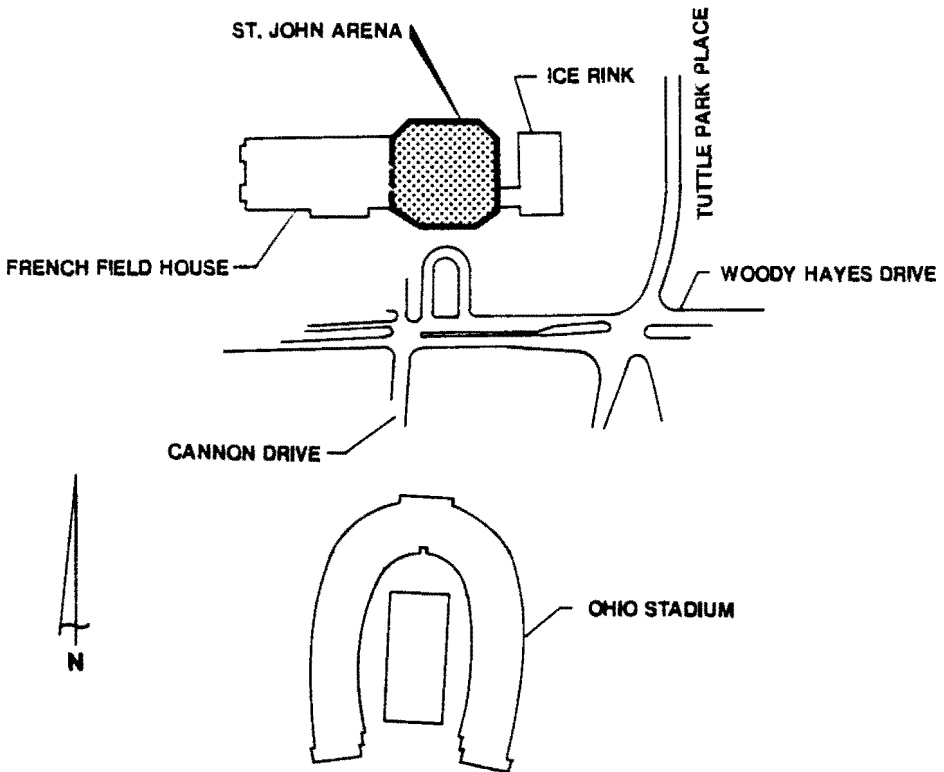
Tabulation of Bids

Bids received by The Ohio State University on March 1, 1989. Bids opened by Tamara Bell and tabulated by Steven Bentley. Awards indicated with an \*\*\*.

General Contract	Estimate	Mid American *	Industrial	Chen-Wood	Kramer & Son
			First		
Base Bid	\$850,000.00	\$629,770.00	\$643,500.00	\$671,031.00	\$679,799.00
	Nationwide	Harold Becker	Richard Smith		
Base Bid	\$775,292.00	\$777,417.00	\$827,376.00		



# ST. JOHN ARENA ROOF REPLACEMENT



OFFICE OF BUSINESS AND ADMINISTRATION  
MAY 4, 1989

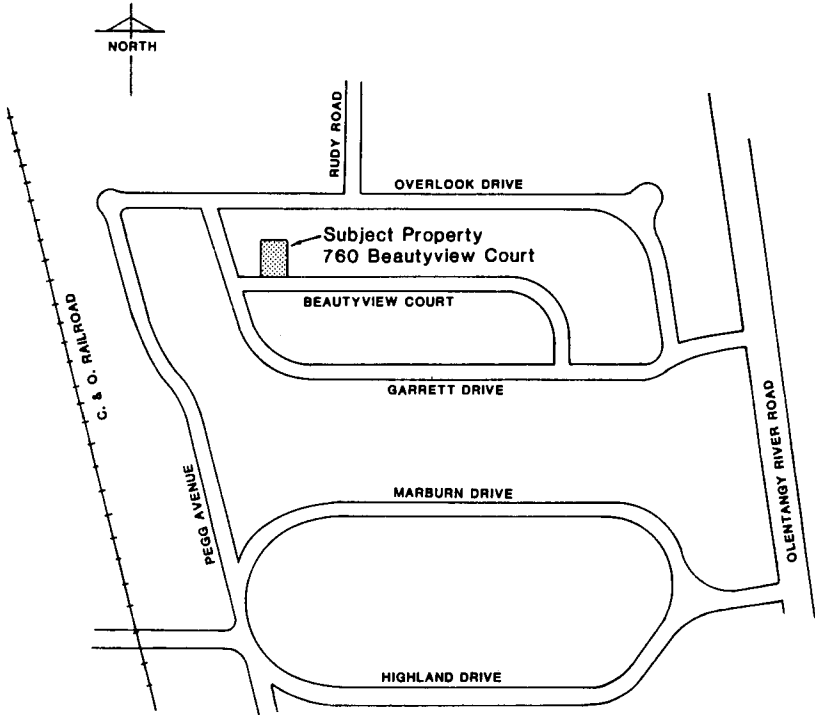
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APPENDIX XXXXVII

SALE OF REAL PROPERTY  
760 BEAUTYVIEW COURT, COLUMBUS, OHIO

Adopted by the Board of Trustees May 4, 1989  
(See page 1132)

Sale of Real Property  
760 Beautyview Court  
Columbus, Ohio



NO TRUE SCALE

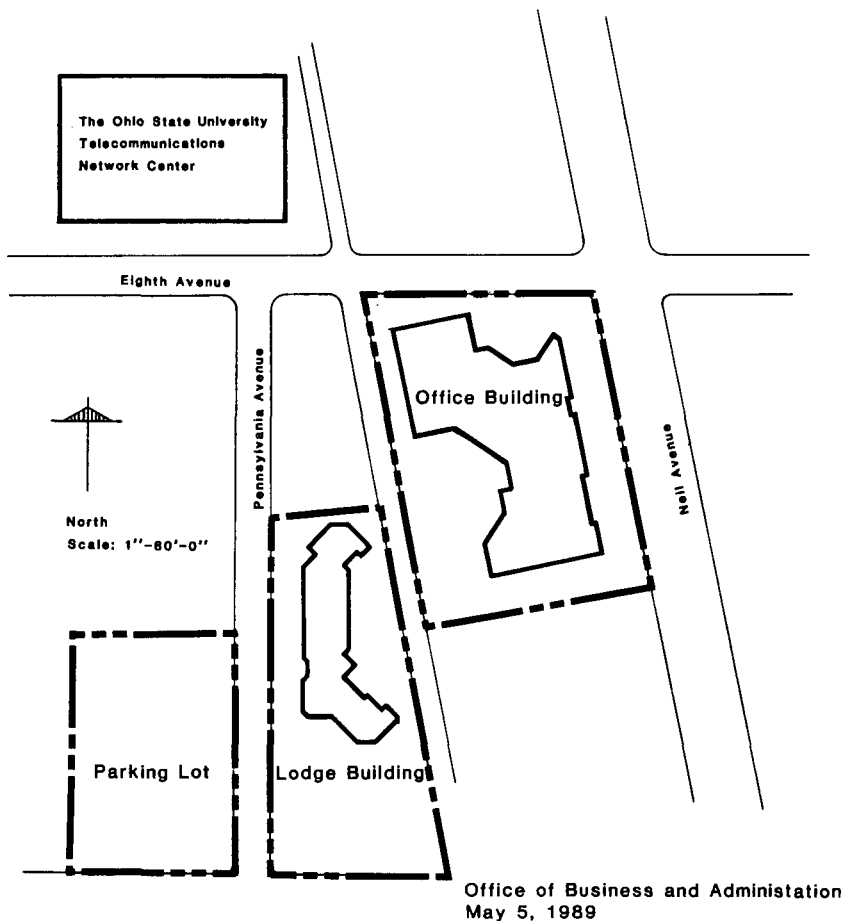
Office of Business and Administration  
May 5, 1989

APPENDIX XXXXVIII

PURCHASE OF REAL PROPERTY  
CRANSTON CENTER  
1501 NEIL AVENUE, ET AL., COLUMBUS, OHIO

Adopted by the Board of Trustees May 4, 1989  
(See page 1133)

Purchase of Real Property  
Cranston Center  
Columbus, Ohio

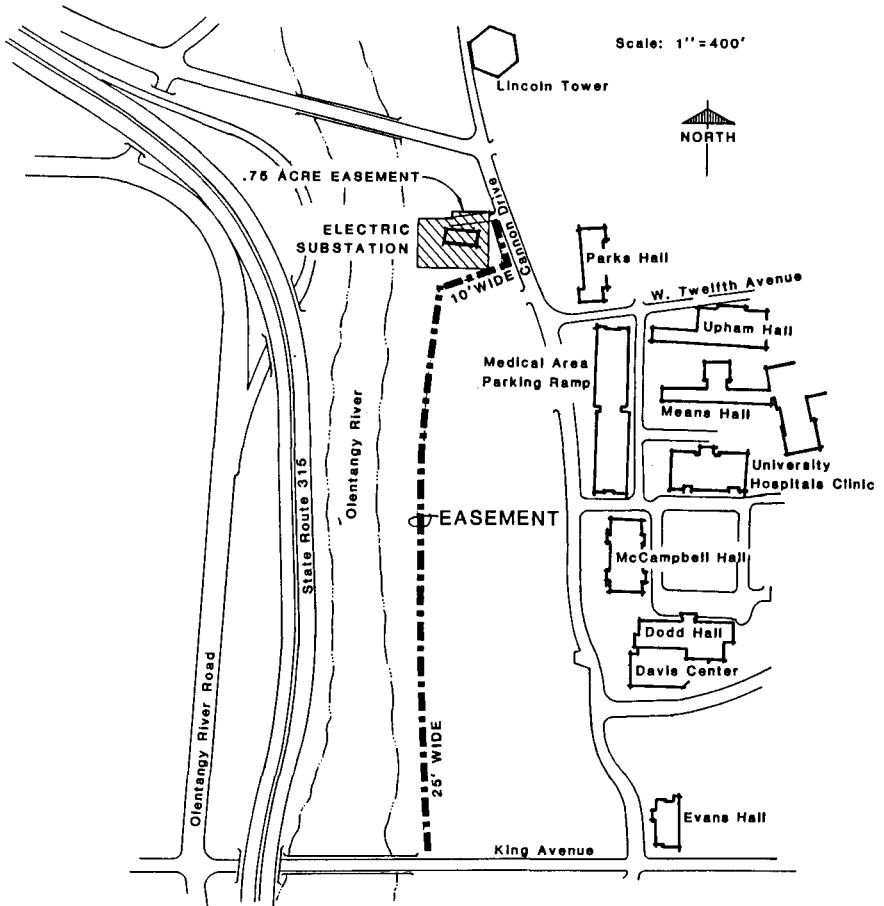


APPENDIX XXXXVIII

EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989  
(See page 1135)

# Columbus Southern Power Company Easement Renewal



Office of Business and Administration  
May 5, 1989

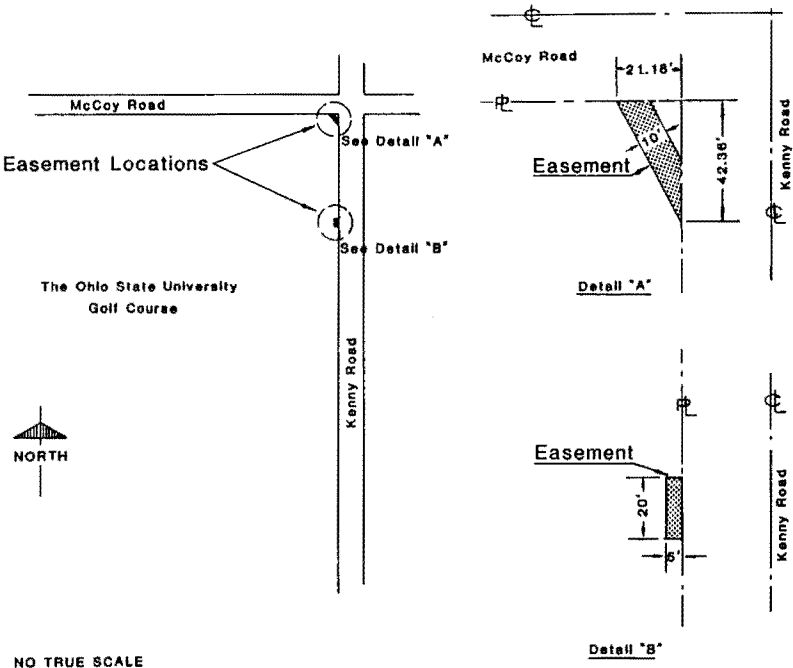


APPENDIX L

EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989  
(See page 1136)

Columbus Southern Power Company Easement Renewal  
at The Ohio State University Golf Course



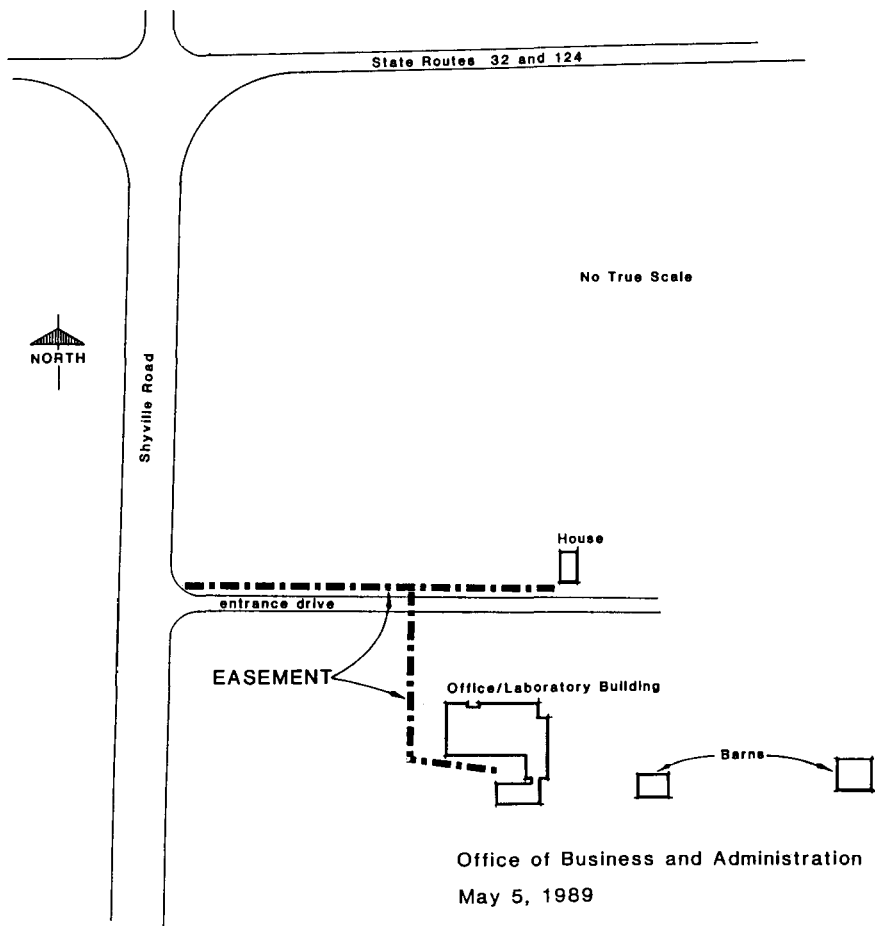
Office of Business and Administration  
May 5, 1989

APPENDIX LI

EASEMENT  
COLUMBUS SOUTHERN POWER COMPANY

Adopted by the Board of Trustees May 4, 1989  
(See page 1136)

Columbus Southern Power Company Easement  
at the Piketon Agricultural Research and Extension Center,  
Pike County, Ohio



APPENDIX LII

RECOMMENDATIONS FOR MODIFICATION OF THE  
UNIVERSITY'S GROUP BENEFITS PROGRAM

Adopted by the Board of Trustees May 4, 1989  
(See page 1143)

RECOMMENDATIONS FOR MODIFICATION OF THE  
UNIVERSITY'S GROUP BENEFITS PROGRAM

RECOMMENDATION 1

FACULTY AND STAFF CONTRIBUTIONS SHOULD BE INSTITUTED EFFECTIVE JULY 1, 1989 FOR THE MEDICAL COVERAGES UNDER BOTH THE TRADITIONAL PLAN AND UNIVERSITY'S ALTERNATIVE HEALTH PLAN. BEGINNING WITH FISCAL YEAR 1989-90 FULL-TIME FACULTY AND STAFF MEMBERS SHOULD PAY 15% OF THE PREMIUM FOR INDIVIDUAL COVERAGE AND 15% OF THE PREMIUM FOR DEPENDENT COVERAGE. FOR FISCAL YEAR 1990-91 THE CONTRIBUTION PERCENTAGE SHOULD BE INCREASED BY 3%, FOR A TOTAL CONTRIBUTION OF 18% OF THE APPLICABLE PREMIUM FOR THAT YEAR. FOR 1991-92, THE CONTRIBUTION PERCENTAGE SHOULD BE INCREASED AN ADDITIONAL 3%, MAKING THE CONTRIBUTION 21% OF THE TOTAL PREMIUM. AN ADDITIONAL 4% SHOULD BE ADDED FOR FISCAL YEAR 1992-93, BRINGING THE CONTRIBUTION TO 25% OF THE TOTAL PREMIUM. IT IS FURTHER RECOMMENDED THAT THE DEPENDENT RATE STRUCTURE BE DIVIDED INTO TWO COMPONENTS: A ONE DEPENDENT CONTRIBUTION AMOUNT AND A TWO OR MORE DEPENDENTS CONTRIBUTION AMOUNT. THIS WOULD RESULT IN THREE LEVELS OF STAFF MEMBER CONTRIBUTIONS, STAFF MEMBER ONLY COVERAGE, STAFF MEMBER PLUS ONE DEPENDENT, AND STAFF MEMBER PLUS TWO OR MORE DEPENDENTS. THIS PROPOSED RATE STRUCTURE IS CONSISTENT WITH THE CURRENT STRUCTURE FOR DENTAL AND VISION COVERAGE.

Discussion

Faculty and staff member contributions are necessary to reduce the University's financial burden of continuing the medical coverage program. The use of a uniform percentage contribution over all three proposed rate tiers is an equitable approach and does not favor a particular group at the University. Implementation of a three-tier rate structure will allow for a more appropriate contribution from staff members with one dependent compared to those with a larger family. Of course, this additional rate tier has the effect of increasing the cost for larger families by moving away from the concept of shared risk. For a graphic display of the proposed contribution amounts please refer to Exhibit C.

RECOMMENDATION 2

EFFECTIVE JULY 1, 1989, STAFF MEMBER CONTRIBUTIONS SHOULD BE INSTITUTED FOR PART-TIME EMPLOYMENT. THE UNIVERSITY'S SHARE OF THE COST OF MEDICAL COVERAGE FOR A PART-TIME STAFF

MEMBER, WHETHER FOR SINGLE COVERAGE, STAFF MEMBER PLUS ONE DEPENDENT OR STAFF MEMBER PLUS TWO OR MORE DEPENDENTS, SHOULD BE IN PROPORTION TO THE STAFF MEMBER'S PERCENTAGE APPOINTMENT ACCORDING TO THE FOLLOWING CHART:

<u>PERCENTAGE APPOINTMENT</u>	<u>OSU PAYMENT</u>	<u>EMPLOYEE PAYMENT</u>
100%	85%	15%
90%	85%	15%
80%	80%	20%
70%	70%	30%
60%	60%	40%
50%	50%	50%
0 to 49%	NO COVERAGE	NO COVERAGE

PART-TIME STAFF MEMBER CONTRIBUTIONS SHOULD INCREASE IN SUBSEQUENT YEARS ON THE SAME BASIS AS CONTRIBUTIONS FOR FULL-TIME STAFF MEMBERS, BUT IN PROPORTION TO THEIR PERCENTAGE APPOINTMENT.

#### Discussion

Section 89 Discrimination Testing provisions must be taken into account when determining contributions for part-time staff members. Considering the current requirements of Section 89, it is recommended that the University's contribution for part-time staff members not reduce to less than 50% of the University's cost of full-time employees' coverage. It should be noted, however, that bills have been introduced to simplify or repeal Section 89.

#### RECOMMENDATION 3

INCREASE THE DEDUCTIBLE FOR THE TRADITIONAL PLAN AND THE UAHP OUT-OF-NETWORK SERVICES FROM \$100.00 TO \$150.00. EFFECTIVE DATE: JULY 1, 1989.

#### Discussion

The deductible in both the traditional plan and UAHP (out-of-network) has not been adjusted to reflect medical cost increases in recent years. A \$50 increase in the deductible for both plans would be appropriate and would maintain the differential between the traditional plan and UAHP.

#### RECOMMENDATION 4

ESTABLISH A CO-PAYMENT OF 20% OF THE CHARGE PER PRESCRIPTION FOR BRAND NAME DRUGS AND 10% OF THE CHARGE PER PRESCRIPTION FOR GENERIC DRUGS PROVIDED BY UAHP IN-NETWORK PHARMACIES.

IN ADDITION, IN ORDER TO MAINTAIN THE INCENTIVE TO USE IN-NETWORK PROVIDERS, IT IS RECOMMENDED THAT PRESCRIPTION DRUGS OBTAINED FROM OUT-OF-NETWORK PHARMACIES BE SUBJECT TO THE \$150.00 DEDUCTIBLE PER PERSON. EFFECTIVE DATE: JULY 1, 1989.

#### Discussion

The average prescription costs between \$20 and \$25. Therefore, the average 20% co-pay would amount to \$4 to \$5, and should serve as an incentive to hold down the utilization of prescription drugs. For non-participating pharmacies under UAHP, 80% coverage should be provided for brand name drugs after the deductible with 90% coverage for generic drugs after the deductible. In addition, subjecting out-of-network drugs to a \$150.00 deductible is consistent with the traditional plan deductible.

#### RECOMMENDATION 5

INCREASE THE CO-PAYMENT FOR UAHP OFFICE VISITS FROM \$5 to \$10. EFFECTIVE DATE: JULY 1, 1989.

#### Discussion

This recommendation is consistent with the Benefits Evaluation Committee suggestions and the rationale set forth in that report.

#### RECOMMENDATION 6

ESTABLISH A SALARY REDUCTION ARRANGEMENT TO PERMIT EMPLOYEES TO PAY THEIR CONTRIBUTIONS TO THE MEDICAL PLAN WITH PRE-TAX DOLLARS. THIS PROGRAM WOULD ALSO APPLY TO EXISTING CONTRIBUTIONS TO THE DENTAL AND VISION CARE PLANS. ESTABLISH A FLEXIBLE SPENDING ACCOUNT EFFECTIVE JANUARY 1, 1990, ENABLING STAFF MEMBERS TO PAY FOR MEDICAL EXPENSES, INCLUDING DENTAL AND VISION EXPENSES NOT COVERED BY THE GROUP PROGRAMS WITH PRE-TAX DOLLARS. EFFECTIVE DATE: JANUARY 1, 1990.

#### Discussion

A formal flexible spending account need not be established to permit employees to pay their contributions with pre-tax dollars. A simple salary reduction agreement would accomplish this purpose. A flexible spending account, however, would be necessary for staff members to use pre-tax dollars to cover deductibles, co-insurance, and medical



supplies and services not covered by the medical program as well as dental and vision care supplies and services not covered by those plans. Dependent care expenses could be paid with pre-tax dollars through a dependent care account.

Staff member contributions to a flexible spending account would be subject to a "use it or lose it" provision as set forth under Section 125 regulations. That is, monies not used by the close of the plan year would be forfeited.

A flexible spending account funded solely by staff member contributions will probably not pass the Section 89 discrimination tests and the contributions made by highly compensated staff will probably be taxable. This would eliminate any tax advantage to the highly compensated staff members, but would still allow a significant tax advantage for non-highly compensated staff members.

Under a flexible spending account plan the University could be subject to adverse cash flow and additional plan costs due to the recent Section 125 regulations that require a substantial risk of loss be assumed by the plan sponsor. This means that the maximum amount of coverage must be available to a participant at all times during the plan year. For example, a staff member who elects to reduce salary by \$100 per month must have the \$1,200 annual reimbursement available on the first day of the plan year.

Therefore, a staff member could file a claim for \$1,200 at the beginning of the plan year before the \$1,200 accumulated in the employee's flexible spending account. The University would be required to fund the additional monies. If the staff member left the University before the end of the plan year, it appears that the University could not require the staff member to pay the excess amount of the claim funded by the University over the amount in the staff member's account.

The treatment of participant account forfeitures has also been changed by the regulations. Plan sponsors may no longer capture forfeitures in excess of administrative costs, rather such forfeitures must be allocated to participants.

Each individual participant election under a flexible spending account plan is a separate plan for the purposes of Section 89 nondiscrimination testing. Therefore, the complexity of the nondiscrimination testing is increased and a likelihood of the plan receiving approval is decreased. A detailed description of flexible spending accounts can be found in the attached report to the University by Mercer Meidinger Hansen (Exhibit D). The report details the provisions of a dependent care expense account as well as a medical expense account. In addition, the report takes into

consideration the impact of the recent Section 89 regulations.

Due to the complexities of the Flexible Spending Account concept and the risk of forfeiture of staff member money, an effective, well planned staff member communication program is imperative. A series of questions and answers which could form part of the communications effort is contained in the Flexible Spending Account report.

#### RECOMMENDATION 7

**PROVIDE A \$25 MONTHLY CREDIT TO THE FLEXIBLE SPENDING ACCOUNT OF STAFF MEMBERS WHO WAIVE THEIR INDIVIDUAL MEDICAL COVERAGE BECAUSE THEY HAVE ALTERNATIVE COVERAGE.**

#### Discussion

This recommendation should only be implemented if the University determines it is economically feasible to grant a credit. Requiring staff member contributions may provide sufficient incentive for staff members to drop coverage without the added incentive of the \$25 credit.

#### RECOMMENDATION 8

**AS AN ADDITIONAL OPTION, THE UNIVERSITY SHOULD CONSIDER A LOW COST MEDICAL PLAN. THE PLAN COULD HAVE A \$300 PER PERSON DEDUCTIBLE WITH A \$900 FAMILY DEDUCTIBLE. THE CO-INSURANCE LIMIT (MAXIMUM OUT-OF-POCKET EXPENSE TO THE STAFF MEMBER) COULD BE \$1,500 PER INDIVIDUAL AND \$3,000 FOR THE FAMILY. EIGHTY PERCENT COVERAGE COULD BE PROVIDED FOR ALL MEDICAL SERVICES AFTER THE CALENDAR YEAR DEDUCTIBLE IS SATISFIED. STAFF MEMBER CONTRIBUTIONS WOULD BE BASED ON THE PREMIUM REQUIRED TO FUND THE PLAN, BUT IN ANY CASE WOULD BE SIGNIFICANTLY LESS THAN THE CONTRIBUTION REQUIRED FOR THE TRADITIONAL PLAN OR UAHP. EFFECTIVE DATE: JANUARY 1, 1990.**

#### Discussion

The additional low cost medical plan option would enable staff members to choose the benefit program most appropriate to their situation. This would also move the University's program toward a cafeteria benefits approach. However, additional plan options would complicate Section 89 compliance and could result in additional cost to the highly-paid individuals through tax consequences of failing the Section 89 non-discrimination tests. Further, the low cost plan could attract low risk individuals, causing adverse selection and usage of the UAHP program. The low

cost option also makes it more difficult to estimate the savings anticipated from the recommended changes in plan design for UAHP, since it is difficult to anticipate the magnitude of the enrollment in the low cost option.

## **RECOMMENDATION 9**

**THE UNIVERSITY SHOULD STUDY THE FEASIBILITY OF RESTRUCTURING THE ADMINISTRATION OF THE VARIOUS HEALTH PLANS.**

### **Discussion**

The traditional plan benefits could be cut back to essentially the same level as the out-of-network benefits currently provided under UAHP. Patients would obtain a higher level of benefits by choosing UAHP providers at the time care is provided.

This single plan approach could be offered to the regional campuses. Where economically feasible, networks could be established incorporating hospitals and physicians in the regional campus locations. Staff members would also have access to the facilities in Columbus for non-emergency care. A special emergency benefit could be established for the regional campuses with the provision that a faculty or staff member must live over a certain number of miles from the OSU facilities in Columbus to be eligible for the benefit. Faculty and staff could choose their providers, whether participating or non-participating, at the time care is needed rather than making the election at the beginning of the plan year. A special prescription drug program could also be established for the branch campuses using participating pharmacies and providing the same level of benefits as provided by the UAHP pharmacy. The co-insurance could be 10% of the charge for a generic drug and 20% of the charge for a brand name drug to encourage the use of lower cost generics. The flexible spending account arrangement could also be offered to faculty and staff at the branch campuses on the same basis as provided for those staff members in Columbus.

With one plan, a single claim administrator might be selected through the competitive bid process to replace the current three claim administrators, (which may result in lower administrative costs) more uniform claim reports and simplified management. If a low option plan was also offered, it could also be handled by the same, single claim administrator. The Office of Personnel Services is currently reviewing several suggestions which might facilitate such an arrangement.

#### RECOMMENDATION 10

LONG-TERM CARE INSURANCE AT GROUP RATES SHOULD BE MADE AVAILABLE AT STAFF MEMBER COST EFFECTIVE JANUARY 1, 1990. THE SPECIFICS AS TO PLAN PROVISIONS AND COST COULD BE DETERMINED ON THE BASIS OF BIDDERS' RESPONSES TO SPECIFICATIONS.

#### Discussion

The popularity of long-term care insurance is increasing. A number of insurance carriers now offer such programs. Faculty and staff are interested in long-term care insurance as evidenced by the various committee reports. Competitive bidding of group long-term care insurance would help assure the most economic rates for the most desirable plan provisions and benefits.

#### RECOMMENDATION 11

ADDITIONAL USE SHOULD BE MADE OF CO-PAYMENTS UNDER UAHP FOR TESTS, X-RAYS AND OTHER SERVICES, BASING THE CO-PAYMENT ON A PERCENTAGE OF THE COST. EFFECTIVE DATE: NOT LATER THAN JANUARY 1, 1990.

#### Discussion

Co-payment could effect utilization in a positive way. However, rather than flat co-pays (such as \$5 per test or \$10 per x-ray) a more effective approach would be to have the provider collect 20% of the cost from the patient. The patient would then become aware of the actual cost of the service. Patients would be encouraged to reduce utilization and providers would be encouraged to hold down costs. As recommended earlier, this approach should also apply to office visit co-payments.

(Please refer to Exhibit "A" for a projection of the estimated annual cost savings realized from various recommendations for fiscal years 1989-90, 1990-91, and 1991-92.)

(See Exhibit B for details of the plan design.)

#### RECOMMENDATION 12

EFFECTIVE JULY 1, 1989, THE BENEFITS FOR BOTH IN-PATIENT AND OUT-PATIENT MENTAL HEALTH COVERAGE SHOULD BE MODIFIED. THE CURRENT UAHP IN-NETWORK COVERAGE FOR IN-PATIENT MENTAL

HEALTH SERVICES INCLUDES FIRST DOLLAR PAYMENT FOR UP TO \$550.00. THIS FIRST DOLLAR COVERAGE PROVISION SHOULD BE MODIFIED. THE RECOMMENDED CHANGE TO THIS BENEFIT WOULD PROVIDE 80% OF COVERED CHARGES WITH AN OUT-OF-POCKET MAXIMUM OF \$750.00. THE LIFETIME MAXIMUM BENEFIT WOULD CONTINUE TO BE \$100,000.00. IN-PATIENT OUT-OF-NETWORK COVERAGE SHOULD BE CHANGED FROM THE PRESENT 80% AFTER A \$100.00 DEDUCTIBLE TO 70% AFTER A \$150.00 DEDUCTIBLE. COVERAGE UNDER THE TRADITIONAL PLAN SHOULD BE CHANGED IN ACCORDANCE WITH THE UAHP OUT-OF-NETWORK COVERAGE. COVERAGE FOR OUT-PATIENT SERVICES SHOULD BE MODIFIED TO REFLECT AN ANNUAL MAXIMUM BENEFIT. IT IS PROPOSED THAT THE ANNUAL MAXIMUM BENEFIT FOR OUT-PATIENT SERVICES BE LIMITED TO \$2000.00 AFTER A \$150.00 DEDUCTIBLE. THE LIFETIME MAXIMUM WOULD CONTINUE TO BE \$25,000.00. THERE IS NO MAXIMUM OUT-OF-POCKET LIMIT ASSOCIATED WITH OUT-PATIENT MENTAL HEALTH SERVICES.

#### Discussion

National statistics indicate that mental health coverage is a high cost item in most health insurance plans and therefore has traditionally had higher deductibles and greater co-insurance than other areas of coverage. The proposed changes should bring mental health coverage in line with other changes proposed in plan design.

#### RECOMMENDATION 13

**RENAME THE UAHP PLAN "THE OHIO STATE UNIVERSITY FACULTY AND STAFF HEALTH PLAN".**

#### Discussion

Since the University's Alternative Health Plan is now the predominate health plan for University faculty and staff it has been suggested by several individuals and groups that the plan be renamed.

**PROJECTED COSTS RECOMMENDATION 1  
COST SHARING FOR FULL-TIME STAFF**

COVERAGE TYPE	MONTHLY PREMIUM				
	ACTUAL 1988-89	ESTIMATED 1989-90	ESTIMATED 1990-91	ESTIMATED 1991-92	ESTIMATED 1992-93
SINGLE	83.82	117.80	131.94	147.77	165.50
TWO PERSON	167.64	235.60	263.87	295.54	331.00
FAMILY	262.10	368.36	412.56	462.07	517.52
COMPOSITE	185.00	260.00	291.20	326.14	365.28

	PROPOSED COST SHARING FOR FULL TIME STAFF				
	1988-89 15%	1989-90 15%	1990-91 18%	1991-92 21%	1992-93 25%
SINGLE	12.57	17.67	23.75	31.03	41.38
TWO PERSON	25.15	35.34	47.50	62.06	82.75
FAMILY	39.32	55.25	74.26	97.03	129.38
COMPOSITE	27.75	39.00	52.42	68.49	91.32

	ENROLLMENT FULL TIME STAFF				
	1988-89 EXCLUDING CWA	1989-90 EXCLUDING CWA	1990-91	1991-92	1992-93
SINGLE	3480	3480	4062	4062	4062
TWO PERSON	2900	2900	3385	3385	3385
FAMILY	5218	5218	6094	6094	6094
TOTAL	11598	11598	13541	13541	13541

	VALUE OF COST SHARING FOR FULL TIME STAFF				
	1988-89	1989-90	1990-91	1991-92	1992-93
SINGLE	525,048	737,899	1,157,596	1,512,592	2,016,789
TWO PERSON	875,081	1,229,832	1,929,327	2,520,987	3,361,316
FAMILY	2,461,748	3,459,784	5,430,586	7,095,966	9,461,287
TOTAL	3,861,877	5,427,516	8,517,508	11,129,544	14,839,392

THE OHIO STATE UNIVERSITY  
MEDICAL CLAIMS PAID AND PREMIUM INCOME - HISTORICAL SUMMARY

YEAR	CLAIMS PAID (1)	% INCR	ADMIN COST (2)	% INCR	TOTAL CLAIMS & ADMIN (3)	% INCR	PREMIUM INCOME (4)	% INCR	INCURRED CLAIMS RESERVE (5)
BEGINNING BALANCE 7-1-83 & INTEREST EARNED (31,915,794) THRU 6-30-88									\$9,300,001
1983-84	\$17,535,804		\$677,806		\$18,213,610		\$18,914,653		\$10,611,044
1984-85	\$17,535,902	1.21	\$688,551	1.22	\$18,424,453	1.21	\$21,070,001	11.40	\$12,656,592
1985-86	\$19,948,445	13.76	\$1,191,119	34.05	\$21,139,564	14.74	\$22,599,720	7.26	\$14,116,748
1986-87	\$25,635,731	27.51	\$1,729,272	45.18	\$27,165,003	28.50	\$24,209,279	7.12	\$11,141,004
1987-88	\$29,054,519	14.24	\$2,189,649	26.62	\$31,244,168	15.02	\$25,908,321	7.02	\$5,823,177
1988-89 (EST)	\$38,340,000 (6)	31.95	\$2,316,489	5.79	\$40,656,489	30.12	\$35,464,500	36.86	\$631,108
1989-90 (EST)	\$48,883,500 (6)	27.50	\$2,432,313	5.00	\$51,315,813	26.22	\$35,464,500 (7)	0.00	(\$19,220,125)

- (1) ACTUAL MEDICAL CLAIMS PAID FOR BOTH THE UNIVERSITY ALTERNATIVE HEALTH PLAN (UAHP) AND THE TRADITIONAL HEALTH PLAN (THP). THE UAHP BEGAN OPERATIONS IN NOVEMBER 1985.
- (2) ACTUAL COSTS TO ADMINISTER BOTH THE UAHP AND THP. THE UAHP BEGAN OPERATIONS IN NOVEMBER 1985.
- (3) CLAIMS PAID PLUS ACTUAL ADMINISTRATIVE COST
- (4) ACTUAL PREMIUMS COLLECTED FROM UNIVERSITY FISCAL UNITS: GENERAL FUNDS, EARNINGS, RESTRICTED ACCOUNTS (SUCH AS RESEARCH GRANTS) AND SPECIAL GROUPS.
- (5) RESERVE ESTABLISHED TO FUND INCURRED BUT UNREPORTED MEDICAL CLAIMS.
- (6) ESTIMATED CLAIMS WERE PREDICTED USING A CURVILINEAR (POLYNOMIAL) REGRESSION MODEL. THE MODEL ASSUMES NO MODIFICATIONS IN THE MEDICAL PROGRAMS.
- (7) ASSUMES SAME PREMIUM AS 1988-89. THIS ASSUMPTION IS MADE FOR ANALYTICAL PURPOSES ONLY. IN ACTUALITY THESE PREMIUMS WILL INCREASE.

# HEALTH PLAN BENEFIT COMPARISON

## University Alternative Health Plan

Coverage	In Network	Out of Network	Traditional Plan
Office Visit	<u>\$10</u> per visit	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Surgical Procedure	Paid in full	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible
In-Hospital Physicians Care	Paid in full	First visit-\$30, next 3-\$15, next 116-\$12, balance at 80% after <u>\$150</u> deductible	First visit-\$30, next 3-\$15, next 116-\$12, balance at 80% after <u>\$150</u> deductible
In-Patient Hospital Charges	Paid in full	80% of semi-private rate, maximum co-pay = \$1000	120 days paid in full, balance at 80% after <u>\$150</u> deductible
In-Patient Mental Health	80% \$100,000 lifetime max	70% after <u>\$150</u> deductible \$100,000 lifetime max	70% after <u>\$150</u> deductible \$100,000 lifetime max
Out-Patient Mental Health	70% after <u>\$150</u> deductible to \$2000 benefit per year max \$25,000 lifetime max	50% after <u>\$150</u> deductible to \$2000 benefit per year max \$25,000 lifetime max	50% after <u>\$150</u> deductible to \$2000 benefit per year max \$25,000 lifetime max
Outpatient Lab and X-Ray	80%	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Prescription Drugs	80% Brand Name 90% Generic	80% Brand Name, 90% Generic after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Obstetrical/Maternity	Paid in full	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible	Schedule of payments (max = \$1200), balance at 80% after <u>\$150</u> deductible
Immunizations	Paid in full	Birth to 6 months - in full After 6 months - not covered	Birth to 6 months - in full After 6 months - not covered
Emergencies - Medical	Acute - in full other at 80%	Acute - paid in full, other at 80% after <u>\$150</u> deductible	Acute - paid in full, other at 80% after <u>\$150</u> deductible
Emergencies - Accident	Paid in full	Paid in full	Paid in full
Physical Therapy, Hospital Outpatient	Paid in full	80% after <u>\$150</u> deductible	60 visits in full, balance at 80% after <u>\$150</u> deductible
Physical Therapy Home/Doctor's Office	Paid in full	80% after <u>\$150</u> deductible	80% after <u>\$150</u> deductible
Occupational and Speech Therapy	Paid in full	Not covered	Not covered
Routine Gynecology Examinations	Paid in full	Not covered	Not covered
Physicals, including associated lab and X-rays	Schedule of lifetime physicals. <u>Adult physicals 80%</u>	Birth to 6 months - 6 exams paid in full, after 6 months - not covered	Birth to 6 months - 6 exams paid in full, after 6 months not covered

\* Underlined items are changes



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APPENDIX LIII  
Degrees Conferred at  
THE OHIO STATE UNIVERSITY  
COMMENCEMENT CONVOCATION  
June 9, 1989

## Commencement Speaker

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### **Elizabeth Hanford Dole Doctor of Laws**

Elizabeth Dole became a member of President Bush's Cabinet when she was sworn in as the 20th secretary of labor in January 1989. In this position, she serves as the President's chief adviser on labor issues and as a key economic policy adviser. She guides a federal agency with a budget of more than \$31 billion and nearly 19,000 employees.

Dole's responsibilities include dealing with issues surrounding health and safety, wages, and employment rights of working people. She also oversees job training, unemployment insurance, workers' compensation programs, and a variety of other activities.

She was secretary of transportation from 1983 to 1987, and prior to that, served as a member of the Federal Trade Commission. Her public service has also included presidential appointments as executive director of the President's committee on consumer interests and as deputy special assistant to the President for consumer affairs.

Dole graduated with distinction in political science from Duke University, where she was president of the student government and elected to Phi Beta Kappa. She received her law degree from Harvard Law School and a master's degree in education and government from Harvard University.

Currently she is serving as honorary chair of the Board of Overseers at Duke Comprehensive Cancer Center and is a member of the Visiting Committee of Harvard University's John F. Kennedy School of Government. She recently received the Humanitarian Award from the National Commission Against Drunk Driving.

We welcome her to Ohio State and are honored that she has agreed to speak at today's ceremony.

## Recipients of Honors

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### **Julian B. Rotter** **Doctor of Science**

The theories, insights, and research of Julian Rotter changed the course of modern psychology. In 1955, he contributed an important and comprehensive theory of social learning to his field—one that went against the tide of the time by emphasizing thought processes rather than simply overt behavior. As a result of his work, social learning has become the major orientation of contemporary psychology.

He retired in 1987 from the University of Connecticut, where he served as director of the Clinical Psychology Training Program from 1963 to 1986, and still teaches as a professor emeritus. From 1946 to 1963, he was a faculty member at Ohio State and served as director of the Psychological Clinic for nine years. Under his guidance, Ohio State's Department of Psychology rose in stature to one of the most prestigious departments of its kind in the world.

Rotter earned his A.B. degree in chemistry from Brooklyn College and his M.A. and Ph.D. degrees in psychology from the State University of Iowa and Indiana University, respectively.

His 1954 book, *Social Learning and Clinical Psychology*, has become a classic in the field and has had a pervasive influence on both the science and practice of psychology. He has been recognized for his outstanding contributions by receiving the American Psychological Association Award for Distinguished Contributions to the Science and Profession of Clinical Psychology.

As a teacher, Rotter's success is unparalleled: more than 100 students have completed doctoral degrees under his direction, and an unusually high percentage of them have gone on to prominent positions in teaching, research, and academic administration throughout the country. His former students have helped to shape much of the personality literature that exists today. He has set the standard for students, as well as for his colleagues, and Ohio State is proud to recognize him for his lifetime of accomplishment.

## Recipients of Honors

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### **Robert E. Georges** **Distinguished Service Award**

Robert E. Georges is an associate dean emeritus in the College of Business, where he served for 22 years before retiring in 1987. He earned a B.S. in business administration from Ohio State in 1956 and an M.B.A. from George Washington University in 1965.

During his tenure with Ohio State, Georges implemented many programs that enhanced accounting and business education; he was especially committed to creating opportunities for minority students. Among his most significant contributions was the New Careers Program (1969-1976), which sought to prepare minority students for management careers.

In 1975, Georges was instrumental in establishing the Minority Assistance Program. This program continues to serve students today, and offers them financial assistance, special counseling, intern experience, and other benefits.

His influence has enriched the educational experience for countless undergraduates throughout the last two decades. Georges has been a vigorous proponent of a broad-based curriculum for business students. He taught management science, human resources, and an honors class, "The History of Management Thought." He developed the honors class to explore the impact of business and economics on society—giving students a sense of ethics that complements their business education.

In addition to his teaching and administrative activities, Georges served on numerous committees including the University Senate, the Ohio Faculty Senate, and the Ohio Board of Regents Articulation Task Force and has been active in several professional organizations. He received the University's Wright Award in 1977 for leadership in student advising and, in 1984, the University Distinguished Affirmative Action Award. Ohio State is proud to add a Distinguished Service Award to his honors and thanks him for his years of dedication to the University.

### **Frederick G. Ruffner, Jr.** **Distinguished Service Award**

The \$350 million Ohio State University Campaign—the largest ever conducted by a public university—requires the dedication of hundreds of volunteers. Fred Ruffner is among the most devoted of those volunteers; he has given unstintingly of his time and resources and has been an inspiration to other supporters of Ohio State.

A 1950 business graduate, Ruffner served from 1985 to 1988 as national chair of the University's five-year campaign. His involvement with Ohio State has spanned three decades—over the years he has spent countless hours meeting with committees, working with prospective donors, recruiting other volunteers, and promoting the University. His generous gift to the campaign further illustrates his concern for Ohio State: instead of establishing a chair or program in his name, Ruffner elected to give money to a flexible, general fund for emergencies and newly emerging needs. He is a member of The Presidents Council and the Alumni Association and serves on The Ohio State University Foundation board of directors, as well as the National Campaign Steering Committee.

Ruffner is president of Omnigraphics Inc. of Detroit, a publisher of educational books, journals, and videotapes. He and his wife, Mary, founded the Gale Research Company, which creates and publishes reference books, in 1954 and sold it in 1985. Ruffner received the tenth annual Curtis Benjamin Award in 1985 from the Association of American Publishers, Inc. for setting new standards for information publishing.

An active advocate of libraries, he is a member of Friends of the Libraries groups at Ohio State and in both Detroit and Fort Lauderdale and served as president of Friends of the Libraries U.S.A. He was recently honored by the American Library Association for his corporate support and volunteer leadership. We commend him for his decades of service and proudly present him with the Distinguished Service Award as an expression of the University's appreciation.

## The Graduate School

Dean: Roy A. Koenigsnecht

### Doctor of Philosophy

**Amir M. Abduljalil**, Iraq; B.S., M.S. (Baghdad University); *Physics*  
Dr. H. Hausman

**Ayman Soliman Aguib**, Egypt; B.S., M.S. (Ain Shams University); *Civil Engineering*  
Dr. Keith W. Bedford

**Engin Umut Akkaya**, Istanbul, Turkey; B.S.C. (Middle East Technical University); M.S.; *Chemistry*  
Dr. Anthony W. Czarnik

**Abdulhadi Saad Al-Abdulhadi**, Dammam, Saudi Arabia; B.S. (King Saud University); M.A. (Ohio University); *Education*  
Dr. Elsie J. Alberty

**Amer A. S. Al-Shahrani**, Khamis Mushaita, Saudi Arabia; B.S. (College of Education at Abha); M.A.; *Education*  
Dr. Robert Howe

**Yousuf Ghaloom Ali**, Kuwait; B.A. (Kuwait University); M.A.; *Sociology*  
Dr. Katherine Meyer

**Bill Theodore Ameredes**, Columbus; B.S., M.S. (University of Akron); *Physiology*  
Dr. Jack Rall

**Masoud Amin-Javaheri**, Esfahan, Esfahan, Iran; B.S.E.E., M.S.; *Electrical Engineering*  
Dr. D. E. Orin

**Maria Therese Annoni**, Duluth, MN; B.A. (College of Saint Scholastica); M.A.; *Music*  
Dr. Burdette L. Green

**Melvin Damian Ayogu**, Adaba Anambra, Nigeria; B.A. (California State University); A.C.I.B. (The Institute of Bankers); M.A.; *Economics*  
Dr. E. J. Kane

**Clora Mae Baker**, Orleans, IN; B.A., M.A. (Ball State University); *Education*  
Dr. Gail McCutcheon

**George William Barbour**, Columbus; B.S., M.S. (American University of Beirut); *Poultry Science*  
Dr. J. D. Latshaw

**Steven Louis Barnicki**, Avon Lake; B.S.E.E., M.S.; *Bio-Medical Engineering*  
Dr. Richard Campbell

**Robert William Barone**, Hilliard; B.A., M.A. (The University of Rhode Island); *History*  
Dr. Clayton Roberts

**Stephen Alexander Barwick**, Gravesend, New South Wales, Australia; B.S. (The University of Sydney); M.S. (The University of New England); *Animal Science*  
Dr. W. R. Harvey

**Ibrahim Abdulaziz Beayez**, Saudi Arabia, B.A. (Riyadh University); M.A. (Michigan State University); *Communication*  
Dr. Thomas McCain

**Faiza Ali Besbasi**, Tripoli, Libya; B.S. (El-Fateh University); M.S.; *Veterinary Physiology and Pharmacology*  
Dr. Robert Hamlin

**Susan Jane Moyer Brookhart**, Little Hocking; B.A. (Beaver College); M.A.R. (Lutheran Theological Seminary); *Education*  
Dr. William E. Loadman

**Robert James Burkholder**, Greenville; B.S.E.E., M.S.; *Electrical Engineering*  
Dr. Prabhakar Pathak

**Neil Frederick Chamberlain**, Hants, England; B.S. (King's College); M.S.; *Electrical Engineering*  
Dr. A. A. Ksienki

**Shih-Huang Chan**, Taiwan, R.O.C.; Bachelor's (National Taiwan University); M.B.A. (National Chengchi University); *Statistics*  
Dr. Sue Leurgans

**Hsuan Chang**, Taiwan, R.O.C.; B.S. (National Taiwan University); M.S.; *Chemical Engineering*  
Dr. Harry Hershey

**Younhwa Chang**, South Korea; B.S., M.S. (Sook Myung Women's University); M.S. (Oklahoma State University); *Home Economics*  
Dr. Lucy Sibley

**Robert Shu-Keung Chau**, Hong Kong; B.S.E.E., M.S.; *Electrical Engineering*  
Dr. Steven Bibyk

**Guan-ing Chen**, Taipei, Taiwan, R.O.C.; B.S. (Fu-Jen Catholic University); M.S.; *Computer and Information Science*  
Dr. Ten-Huang Lai

**Inching Gilment Chen**, Taipei, Taiwan, R.O.C.; B.S.E.E. (National Chiao Tung University); M.S.; *Electrical Engineering*  
Dr. Jogiraj M. Jagadeesh

**Yao Chia Chuang**, Taipei, Taiwan, R.O.C.; B.S., M.S. (National Taiwan University); M.A.; *Psychology*  
Dr. Jon A. Krosnick

**Amy Elizabeth Clough**, Columbus; B.S. (The University of Akron); *Chemistry*  
Dr. Larry B. Anderson

**Gilbert Wilson Collins**, Livermore, CA; B.S. (The University of Cincinnati); M.S.; *Physics*  
Dr. James R. Gaines

**Barbara B. Cornett**, Worthington; B.S.N. (University of Maryland); M.S.; *Health, Physical Education and Recreation*  
Dr. Mary K. Beyrer

**Margarita Concepción Currás**, Miami, FL; B.S. (Tulane University); M.S.; *Physiology*  
Dr. Jack A. Boulant

**Mark Stephen Davis**, Lima; B.A., M.A., M.A.; *Sociology*  
Dr. Simon Dinitz

**Richard Edwin Doty**, Columbus; B.S. (Muskingum College); M.S.; *Psychology*  
Dr. Samuel Osipow

**Vickie Lynn Douglas**, DeGraff; B.S.H.E., M.S., M.A.; *Health, Physical Education and Recreation*  
Dr. R. C. Bates

**Brook Foster Duerr**, Columbus; B.A. (Potsdam College); *Chemistry*  
Dr. Anthony W. Czarnik

**Martina Ebert**, Worthington; M.A. (Eberhard-Karls University); *English*  
Dr. Julian Markels

**Elaine Drstvensek Edgar**, Lorain; B.S. (Bowling Green State University); M.S.; *Home Economics*  
Dr. Shirley O'Bryant

**Robert James Engelhart**, Marquette, MI; B.M. (Capital University); M.A.; *Music*  
Dr. James E. Major

**Eric Fails**, Huntsville, AL; B.S., M.S. (Alabama Agriculture and Mechanical University); *Agricultural Education*  
Dr. J. David McCracken

**Karen Rae Kyle Fellows**, Westerville; B.A. (Walla Walla College); M.A.; *Education*  
Dr. Nancy L. Zimpher

**Li-Kung Ferng**, Taipei, Taiwan, R.O.C.; B.S. (National Chiao Tung University); *Economics*  
Dr. Robert Driskill

**Daniel Stephen Fleck**, Columbus; B.A. (Saint Meinrad College); M.A.; *Education*  
Dr. Virginia Allen

**Julie Ann Ganley**, Dayton, B.A. (Wright State University); M.S. (Troy State University); *Education*  
Dr. James Wigtil

**Yufei Gao**, Zhejiang, P.R.C.; B.S. (Beijing University of Iron and Steel Technology); M.S.; *Metallurgical Engineering*  
Dr. Paul G. Sheuwmom

**John Thomas Gardner**, University Heights; B.S., M.B.A. (East Carolina University); M.A.; *Business Administration*  
Dr. Bernard J. LaLonde

**Cheryl Jean Glenn**, Marion; B.S.Ed., M.A.; *English*  
*Dr. Andrea Lunsford*

**Michael William Gribble**, Columbus; B.A. (Ohio Dominican College); M.A.; *Psychology*  
*Dr. Richard K. Russell*

**Sehchang Hah**, Upper Arlington; B.A. (Seoul National University); M.A.; *Psychology*  
*Dr. Richard J. Jagacinski*

**Seung Hee Han**, Seoul, South Korea; B.A. (Kong Ju National Teacher's College); M.A. (Seoul National University); *Education*  
*Dr. Elsie J. Alberty*

**Donald Carl Harris**, St. Louisville; B.S.E.P.; *Physics*  
*Dr. James C. Garland*

**Jaballa Mousa Hasan**, Toruk, Libya; B.A. (University of Benghazi); M.A., M.A. (Ohio University); *Communication*  
*Dr. Josina M. Makau, Dr. James Hinks*

**Abdul Shukor Hashim**, Malaysia; Diploma, M.A. (Birmingham Poly); *Art Education*  
*Dr. Nancy MacGregor*

**Wael Ali Hegazy**, Alexandria, Egypt; B.S., M.S. (Alexandria University); M.S.; *Computer and Information Science*  
*Dr. Bruce Weide*

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**Anna Matsukevich**, Columbus; B.S. (Georgetown University); M.S. (George Washington University); *Business Administration*

**Glenn Robert Maxwell**, Sylvania; B.S.Ch.E.; *Business Administration*

**Raymond Thomas Mayak**, Monongahela, PA; B.S. (Bethany College); *Business Administration*

**Charalabos Mazarakis**, Athens, Greece; Bachelor's (Piraeus School); *Business Administration*

**William Patrick McIlhargey**, Springboro; B.B.A. (The University of Toledo); *Business Administration*

**Matthew John McKeon**, Westerville; Bachelor's (Colorado School of Mines); *Business Administration*

**John T. McLaughlin III**, Columbus; B.S.Bus.Adm.; *Business Administration*

**Philip Curtis McNeil**, Beavercreek; B.S. (Wright State University); *Business Administration*

**Nancy Lynn Mead**, Delaware; B.S.Bus.Adm.; *Business Administration*

**Richard Charles Merrin**, Findlay; B.A. (Malone College); *Business Administration*

**Ronald Joseph Meyer**, Minster; B.S.C.I.S.; *Business Administration*

**Laura Gayle Miller**, Akron; B.S. (Miami University); *Business Administration*

**Susan Allison Miner**, Dayton; B.S.Bus.Adm., J.D.; *Business Administration*

**James Steven Moore**, Salt Lake City, UT; B.S. (The University of Utah); *Business Administration*

**Harris K. Mortensen**, Renton, WA; B.S. (Brigham Young University); *Business Administration*

**Carolynne Joy Mucharsky**, Sydney, Australia; B.S.; *Business Administration*

**H. Kenneth Mui**, Hong Kong; B.S., B.S. (Southern Illinois University); *Business Administration*

**Joy Mukherjee**, Calcutta, India; B.S. (Rutgers University); *Business Administration*

**William Ronald Mullins, Jr.**, Dayton; B.S. (Purdue University); *Business Administration*

**Abby Jo Nader**, Warren; B.S.Bus.Adm.; *Business Administration*

**Tiru C. Narayan**, Grove City; Master's (Wayne State University); *Business Administration*

**Jerry Allen Neal, Jr.**, Columbus; B.S. (Miami University); *Business Administration*



**Ronald Dale Nussbaum**, Shreve; B.S. (The University of Akron); *Business Administration*

**David Alan Outcalt**, Columbus; B.A. (Ohio Wesleyan University); *Business Administration*

**Scott Alan Painter**, Willard; B.S.E.E. (Ohio Northern University); *Business Administration*

**Robert George Paquette**, Dublin; B.A., B.A. (State University of New York at Buffalo); M.A.; *Business Administration*

**James Thomas Parker**, Delaware; B.A. (Kenyon College); *Business Administration*

**James Michael Peck**, Dayton; B.S. (University of Dayton); *Business Administration*

**Miriam W. Perry**, Columbus; B.S. (Purdue University); *Business Administration*

**Sharon Jean Phelps**, Granville; B.S.Bus.Ad.; *Business Administration*

**Brian Michael Philbin**, Perrysburg; B.S.Agr.; *Business Administration*

**Jeffrey Michael Prestel**, Dayton; B.S. (Wright State University); *Business Administration*

**Richard Paul Quaintance**, Hilliard; B.S. (Youngstown State University); *Business Administration*

**Vonda Kay Ramey**, Morehead, KY; B.B.A. (Morehead State University); *Business Administration*

**Timothy Harold Robison**, Upper Arlington; B.S.Ch.E., B.S.C.I.S.; *Business Administration*

**Robin A. Ronchetti**, Dublin; B.S. (Miami University); *Business Administration*

**Terri Lynn Ruoff**, Grove City; B.S.B.A. (Miami University); *Business Administration*

**Beth Ann Russell**, West Salem; B.S.Bus.Ad.; *Business Administration*

**Michael Roman Rywalski**, Toledo; B.S. (The University of Toledo); *Business Administration*

**Susan Lynn Salt**, Columbus; B.S. (Miami University); *Business Administration*

**Scott Howard Samuelson**, Cincinnati; B.A. (The University of Cincinnati); *Business Administration*

**George H. Schaefer**, Wickliffe; B.A. (Hiram College); *Business Administration*

**Thomas Daniel Schaner**, Reynoldsburg; B.S. (Bowling Green State University); *Business Administration*

**Wendy Lynn Schneider**, Akron; B.A. (Tulane University); *Business Administration*

**Sallie Anne Scoggin**, Saginaw, MI; B.A. (Lake Erie College); M.S. (Ohio University); *Business Administration*

**Matthew Alan Scott**, Worthington; B.S.Bus.Ad.; *Business Administration*

**Nathan Leslie Segall**, Warren; B.S. (The University of Cincinnati); *Business Administration*

**Richard William Sensenbrenner**, Columbus; B.S.Bus.Ad.; *Business Administration*

**Barry Louis Serpa**, Worthington; B.S. (Bentley College); *Business Administration*

**Eric John Setash**, Vienna, VA; B.S. (George Mason University); *Business Administration*

**Mark Matthew Shaw**, New Holland; B.A. (Wilmington College); *Business Administration*

**John Bolling Sheppard**, Worthington; B.S. (United States Military Academy); *Business Administration*

**Shwu-Fei Shieh**, Taiwan, R.O.C.; B.A. (The National Taiwan University); *Business Administration*

**Mark Allan Shireman**, Akron, IN; B.S. (Purdue University); *Business Administration*

**Cindy Ann Shisler**, Columbus; B.A. (Capital University); *Business Administration*

**Linda Kay Sillman**, Columbus; B.S.I.S.E.; *Business Administration*

**Robert Gerald Sines III**, Cortland; Bachelor's (Youngstown State University); *Business Administration*

**Stewart Alan Skomra**, Lisbon; B.S.M.E.; *Business Administration*

**Adrian Dixon Smith**, Mt. Vernon; B.S. (The University of Manchester); *Business Administration*

**Daniel Howard Smith**, Kalamazoo, MI; B.S. (Butler University); *Business Administration*

**David Kent Smith**, Newport Beach, CA; B.S. (The University of California at Irvine); *Business Administration*

**David Ray Smith**, Columbus; B.S. (The University of Toledo); *Business Administration*

**Patrick Allen Smith**, Columbus; B.S.Bus.Ad.; *Business Administration*

**Robert Wesley Smith**, Rochester, NY; B.A. (Wittenberg University); *Business Administration*

**Joseph William Stadnicar**, Avon Lake; B.S. (John Carroll University); *Business Administration*

**Theodosia Billie Streets**, Ridgewood, NJ; B.A. (Oberlin College); *Business Administration*

**Mark Alfred Sutter**, Dublin; B.B.A. (Ohio University); *Business Administration*

**Michael Stuart Swartz**, Westerville; B.S.E.E.; *Business Administration*

**Paul Lawrence Syljebeck**, Columbus; B.S.Mng.Engr.; *Business Administration*

**Takahiko Takeda**, Tokyo, Japan; B.A. (Waseda University); *Business Administration*

**Tracy Claire Thoman**, Columbus; B.B.A. (University of Notre Dame); *Business Administration*

**Dana Keith Thompson**, Columbus; B.S.Ch.E., M.S.; *Business Administration*

**David Lawrence Trautman**, Columbus; A.B. (Duke University); *Business Administration*

**Joan Young Trautman**, Sylvania; B.A. (Duke University); *Business Administration*

**Michael Carlton Troper**, Englewood Cliffs, NJ; B.A. (Bucknell University); *Business Administration*

**Farn-Pin Tseng**, Taiwan, R.O.C.; B.B.A. (The National Chang Hsing University); *Business Administration*

**Bruce Michael Tylock**, Williamsville, NY; B.S.Ch.E.; *Business Administration*

**Brett Jason Walrath**, Ashtabula; B.S.; *Business Administration*

**Charles David Warner**, Wheelersburg; B.S.; *Business Administration*

**Daniel Vance Watkins**, Columbus; B.S.Bus.Ad.; *Business Administration*

**Peggy Ann Wauben**, Delphos; B.S.Bus.Ad.; *Business Administration*

**Hugh David White, Jr.**, Toledo; B.A. (Tulane University); *Business Administration*

**Thomas Eugene Wilkins**, Columbus; B.S.Bus.Ad.; *Business Administration*

**Martha Annette Williams**, Petersburg, VA; B.S. (Virginia State University); *Business Administration*

**James Robert Wilson, Jr.**, Chillicothe; B.B.A. (Eastern Kentucky University); *Business Administration*

**Kelly Day Wood**, Columbus; B.S.Bus.Ad.; *Business Administration*

**Lindsay Gail Woods**, Rossford; B.A. (Alma College); *Business Administration*

## Master of City and Regional Planning

**Peter Anthony Battaglia**, Miami Beach, FL; B.A. (State University of New York at Binghamton); *City and Regional Planning*

**David Michael Betz**, Columbus; B.A. (State University of New York at Buffalo); *City and Regional Planning*

**Jean M. Carter-Ryan**, Columbus; B.A. (Smith College); *City and Regional Planning*

**Wyllie Elizabeth Enyedy**, Grafton; B.A. (Miami University); *City and Regional Planning*

**Bonnie K. Guttman**, Columbus; B.A.; *City and Regional Planning*

**Julia Rose Hamilton**, Beavercreek; B.A. (The University of Notre Dame); *City and Regional Planning*

**Hyung Jin Kim**, Seoul, South Korea; B.S. (Yonsei University); *City and Regional Planning*

**Sau-Ha Lam**, Columbus; B.A. (The National Taiwan University); *City and Regional Planning*

**John M. Magill**, Columbus; B.A. (The University of Notre Dame); *City and Regional Planning*

**Ibrahim Khalil Maslamani**, Zarqua, Jordan; B.S.Arch.; *City and Regional Planning*

**Joseph Rossi**, Poland; B.A. (Youngstown State University); *City and Regional Planning*

**Ari Siswanto**, Palembang S Sudiatra, Indonesia; Diploma (Surabaya Institute of Technology); *City and Regional Planning*

**Sheng-Tsz Wang**, Chung-Ho Taipei, Taiwan, R.O.C.; B.S. (National Cheng-Kung University); *City and Regional Planning*

**Mary V. Wenning**, Butler; B.S.Soc.Wel.; *City and Regional Planning*

**Kevin Joseph Wheeler**, Bucyrus; B.A. (Miami University); *City and Regional Planning*

**Fatimah Yusof**, Muar, Johore, Malaysia; Diploma (Mara Institute of Technology); *City and Regional Planning*

## Master of Fine Arts

**Jacqueline Mary Cohen**, Columbus; B.F.A. (University of Michigan); *Art*

**Frances Woods Craig**, Florence, AL; B.A. (Randolph-Macon Woman's College); *Dance*

**Loretta Mary Di Bianca**, Warren, NJ; B.A. (College of the Holy Cross); *Dance*

**Shawn Bowman Hicks**, Gaffney, SC; B.A. (Columbia College); *Dance*

**Deborah Ann Jordan**, Houston, TX; B.A. (University of Houston); *Theatre*

**Edith Ann Lovercheck**, Gering, NE; B.F.A. (Stephens College); *Theatre*

**Thomas Kevin O'Connor**, Detroit, MI; B.F.A. (Wayne State University); *Theatre*

**Robert James Roznowski**, Northumberland, PA; B.F.A. (Point Park College); *Theatre*

**Deborah Lynn Shellard**, Columbus; B.A. (Ohio Wesleyan University); *Theatre*

**James Virgil Shumate**, Columbus; B.F.A. (Kent State University); *Art*

**Jeffrey Morrison Smart**, Beaver Falls, PA; B.A. (Baldwin-Wallace College); *Theatre*

**Heather Sultz**, St. Louis, MO; B.A. (Webster University); *Dance*

**Amanda Winifred Thom**, Edinburgh, Scotland; B.Ed. (Bedford College of Higher Education); *Dance*

**Victoria Elizabeth Uris**, Grandview, NY; B.F.A. (New York University); *Dance*

## Master of Health Administration

**Eugenia Louise Anderson**, Bemus Point, NY; B.A. (Miami University); *Hospital and Health Services Administration*

**Nandita Reeser Bhattacharjee**, Columbus; A.B. (Bryn Mawr College); *Hospital and Health Services Administration*

**Paul Andrew Casbergue**, Columbus; B.S. (Michigan State University); *Hospital and Health Services Administration*

**Amin Aziz Charania**, Pakistan; M.B.B.S. (Dow Medical College); *Hospital and Health Services Administration*

**Rosemary V. Chaudry**, Marion; B.S.N. (Adelphi University); *Hospital and Health Services Administration*

**Deborah Lee Curran**, Aurora; B.S.A.Hth.Prof.; *Hospital and Health Services Administration*

**Jeremy Stanford Evans**, Bloomfield Hills, MI; B.A. (Miami University); *Hospital and Health Services Administration*

**John James Fazio**, Akron; B.S. (Gannon University); *Hospital and Health Services Administration*

**Garry Lee Gause**, Lexington; B.S. (Bowling Green State University); *Hospital and Health Services Administration*

**Vera Zina Gorochow**, Delaware; B.S. (Saint John Fisher College); J.D.; *Hospital and Health Services Administration*

**Troy Stewart Horrisberger**, Walnut Creek; B.A. (Hiram College); *Hospital and Health Services Administration*

**Thomas Allen Kleinhanzl**, Clinton; B.S.; *Hospital and Health Services Administration*

**Sean Alphonse Leavitt**, Minneapolis, MN; B.S. (Saint John's University); *Hospital and Health Services Administration*

**Lee-Yu Lin**, Taipei, Taiwan, R.O.C.; B.S. (Chung Yuan University); M.S.; *Hospital and Health Services Administration*

**Gregory F. Morsches**, Toledo; B.S. (University of Cincinnati); *Hospital and Health Services Administration*

**Brenda Lee Pfeiffer**, Hilliard; B.S.Nurs.; *Hospital and Health Services Administration*

**Donna Marie Schiavo**, Milford, MA; B.A. (College of the Holy Cross); *Hospital and Health Services Administration*

**Debra Lynn Snyder**, Grove City; B.S.Bus.Adm.; *Hospital and Health Services Administration*

**Julie Anne Strine**, Columbus; B.A. (Miami University); *Hospital and Health Services Administration*

**Nanette Felice Thaler**, Columbus; B.A. (Earlham College); *Hospital and Health Services Administration*

**Dennis Timko**, Columbus; B.S. (University of Cincinnati); *Hospital and Health Services Administration*

**Mary Jo Vara**, Gahanna; B.S. (Franklin University); *Hospital and Health Services Administration*

## Master of Labor and Human Resources

**Sarah Rochelle Bradley**, Columbus; B.A. (Capital University); *Labor and Human Resources*

**Diane Marie Dierna**, Columbus; B.S.Bus.Adm.; *Labor and Human Resources*

**Suzanne Celina Drew**, Columbus; B.S.; *Labor and Human Resources*

**Joseph H. Eck**, Akron; B.S. (University of Akron); *Labor and Human Resources*

**Patricia Ann Ellefson**, Reynoldsburg; A.A., B.S.; *Labor and Human Resources*

**Lori Jae Epperson**, Richmond; B.S.Agr.; *Labor and Human Resources*

**David Howard Israel**, Lakehurst, NJ; B.A. (State University of New York at Binghamton); *Labor and Human Resources*

**Teresa Jane Jones**, Columbus; B.S.H.E.; *Labor and Human Resources*

**Valerie Ann Murchake**, Columbus; B.S.Nurs., B.A.; *Labor and Human Resources*

**Debra Herdman Pelley**, Columbus; B.S.; M.A. (Duquesne University); *Labor and Human Resources*

### **Master of Landscape Architecture**

**Jeffrey Scott Markley**, Brecksville; B.A. (Miami University); *Landscape Architecture*

**Sukwon Park**, Seoul, South Korea; B.A. (Kyoung-Hee University); *Landscape Architecture*

**Robert S. Ziekinski**, Columbus; B.S. (Eastern Kentucky University); *Landscape Architecture*

### **Master of Music**

**Mark Andrew Baker**, Grove City; B.Mus.; *Music*

**Seonmi Koh-Noh**, Seoul, South Korea; B.M. (Ewha Women's University); *Music*

**James Monroe Morrow, Jr.**, Alvin, TX; B.Mus. (Hardin-Simmons University); *Music*

**Sandra Lynn Perry**, Bloomington, IL; B.M. (Illinois State University); *Music*

**Thomas Kennedy Ryan**, Sandusky; B.Mus. (Ohio Northern University); *Music*

**Kent Curtis Weaver**, Columbus; B.M. (Westminster Choir College); *Music*

### **Master of Public Administration**

**John Douglas Alge**, Arlington; B.A. (Bowling Green State University); *Public Administration*

**Rochelle Rene Athey**, Newark; B.A., M.A. (Kent State University); *Public Administration*

**Peter Anthony Battaglia**, Miami Beach, FL; B.A. (State University of New York at Binghamton); *Public Administration*

**Ordwell Perry Burr III**, Warren; B.A. (Hiram College); *Public Administration*

**Paula Lee Cogan**, Brooklyn, NY; B.S. (Columbia University); *Public Administration*

**Maria Theresa Coleman**, Columbus; B.A. (University of Cincinnati); *Public Administration*

**Linwood Corbett, Jr.**, Richmond, VA; B.A. (Virginia Union University); *Public Administration*

**Daryl Paul Hennessey**, Grove City; B.S. (Ohio University); *Public Administration*

**Nina Moore Johnson**, Chestertown, MD; B.S. (Morgan State University); *Public Administration*

**Sean Kennedy Keller**, Monroeville, PA; B.S.B.A. (West Virginia University); *Public Administration*

**Jeanna Marie Kettles**, San Antonio, TX; B.B.A. (Incarnate Word College); *Public Administration*

**Ann Pennington Laubach**, Columbus; B.A. (Oberlin College); *Public Administration*

**Beverly Jean Mullet**, Columbus; B.A.Jour.; *Public Administration*

**Patricia Ann Peters**, Dublin; B.S.Bus.Adm. (University of Nebraska at Lincoln); *Public Administration*

**Theresa Kaye Porter**, Columbus; B.A.; *Public Administration*

**Laurie Ann Rossvanes**, Youngstown; B.S. (Youngstown State University); *Public Administration*

**William Edward Snuffer II**, Columbus; B.S.; *Public Administration*

**David Ann Thaeler**, Mentor; B.S.Bus.Adm.; *Public Administration*

**Sheila Margaret Valles-Pankratz**, Columbus; B.A. (Pan American University); *Public Administration*

### **Master of Science**

**Shamim Ahmed**, Karachi, Pakistan; B.S. (N.E.D. University); *Electrical Engineering*

**Ijeoma Ifeyinwa Akusoba**, Columbus; B.S. (University of Nigeria); *Pharmacy*

**Curtis William Alden**, Van Wert; B.S.Agr.E.; *Agricultural Engineering*

**Aimee Rene Allen**, Granville; B.S.Met.E.; *Metallurgical Engineering*

**Nasir Khalid Amra**, Worthington; B.S. (Vanderbilt University); M.D.; *Computer and Information Science*

**Diana Jean Angus**, Columbus; B.S.N. (Bluffton College); *Nursing*

**Juan Diego Arango**, Medellin, Antioquia, Colombia; Electronics Engineer (Universidad Pontificia Bolivariana); *Computer and Information Science*

**Dale William Arbaugh**, Jewett; B.S.Agr.; *Agricultural Economics and Rural Sociology*

**Carlos Roberto Armas**, Reynoldsburg; B.S. (State University of New York at Buffalo); *Electrical Engineering*

**Richard Alan Asamoto**, Columbus; B.S.; *Computer and Information Science*

**Rachid Azzouzi**, Morocco; B.A.; M.S. (I.A.V. Hassan II); *Geodetic Science and Surveying*

**Keith Allen Bailey**, Reynoldsburg; B.S.E.E.; *Electrical Engineering*

**Hassan Saeed Basha**, Jordan; B.Sc. (The University of Michigan); *Nuclear Engineering*

**Jamelelil Belwafa**, Tunis, Tunisia; B.S.M.E.; *Mechanical Engineering*

**Mary Louise Bennett**, Columbus; B.S.H.E.; B.S.Nurs. (Ohio Wesleyan University); *Nursing*

**Kathryn Elizabeth Berry**, Columbus; B.S.N. (Capital University); *Nursing*

**Najib Ahmad Bhatti**, Islamabad, Pakistan; B.S.C.E. (The University of Engineering and Technology); *Civil Engineering*

**Daniel Bien**, Columbus; B.S.C.I.S.; *Computer and Information Science*

**Donna Romonto Black**, Chesterland; B.S. (Ohio University); *Industrial and Systems Engineering*

**James Victor Blackwell**, Hamilton; B.S.Ch.E.; *Microbiology*

**Jaime Luis Bou**, Santo Domingo, Dominican Republic; Bachelor's (Technology Institute of Santo Domingo); *Agricultural Economics and Rural Sociology*

**Joyce Braman**, Sunrise, FL; B.S. (Bob Jones University); *Home Economics*

**Kimberley L. Brantley**, Fairfield; B.S.Pharm.; *Pharmacy*

**Richard Gerard Brill**, West Mansfield; B.S.Agr.; *Agricultural Education*

**Donna Marie Broermann**, Camden; B.S.Agr.; *Animal Science*

**Phillip Andrew Brooker**, Marietta; B.S. (Case Western Reserve University); *Computer and Information Science*

**Dinah Beth Brothers**, Paducah, TX; B.S. (Texas Technological University); *Home Economics*

**Robert Dale Burns**, Rockwood, MI; B.S. (Wayne State University); *Electrical Engineering*

**Paul Russell Burt**, Dayton; B.S.Engineering (Wright State University); *Industrial and Systems Engineering*

**Glenn Edward Calfee**, Cleveland, TN; B.S. (The University of Tennessee); *Dairy Science*

**Guillermo J. Campisteguy**, Westbury, NY; B.S. (State University of New York at Buffalo); *Aeronautical and Astronautical Engineering*

**Carl David Chadwell**, Columbus; B.S.C.E., B.S.Surv.; *Geodetic Science and Surveying*

**Hao-po Chan**, Taiwan, R.O.C.; B.S.E.E. (National Cheng Kung University); *Electrical Engineering*

**Jianru Chang**, P.R.C.; Bachelor's, Master's (Harbin Institute of Technology); *Mathematics*

**Yi-Feng Chang**, Taichung, Taiwan, R.O.C.; B.S. (Taipei Medical College); *Home Economics*

**Chao-Lien Chen**, Taipei, Taiwan, R.O.C.; Bachelor's (Tsing-Hua University); *Industrial and Systems Engineering*

**Prakoon Chen**, Samutprakan, Thailand; B.S.E.E.; *Electrical Engineering*

**Yu-Shu Chen**, Kaohsiung, Taiwan, R.O.C.; B.S. (National Central University); *Civil Engineering*

**Po-Hong Chi**, Taichung, Taiwan, R.O.C.; B.A. (Taipei Medical College); *Home Economics*

**Woong Chul Choi**, Seoul, South Korea; B.S. (Seoul National University); *Mechanical Engineering*

**Lawrence Vito Cipriani**, Columbus; B.S. (Case Western Reserve University); *Computer and Information Science*

**Jeffrey Wade Collins**, Oxford; *Physiological Optics*

**Timothy Leo Comstock**, Columbus; B.A. (The College of Wooster); O.D.; *Physiological Optics*

**Kathleen Ann Cooper**, Bellevue, WA; B.S. (Washington State University); *Zoology*

**John M. Crawford**, Fort Wayne, IN; B.A.; *Preventive Medicine*

**Julie Kay Cronk**, Columbus; B.A.; M.A. (Middlebury College); *Natural Resources*

**Walter Bartlett Curtis**, Columbus; B.S.C.E.; *Civil Engineering*

**Diane Christine D'Abate Cienas**, Madison; B.A. (The University of Akron); *Allied Medical Professions*

**Norine Jo Daugherty**, Mansfield; B.S. (Denison University); *Microbiology*

**Youping Deng**, Hubei, P.R.C.; B.S. (The University of Science and Technology of China); *Physics*

**Deepak Arun Deshpande**, Bombay, Maharashtra, India; B.Tech. (Indian Institute of Technology); *Computer and Information Science*

**Ronald Louis Dilsavor**, Hilliard; B.S.E.E.; *Electrical Engineering*

**David Lawrence Doerfert**, Iron Ridge, WI; B.S. (The University of Wisconsin at River Falls); *Agricultural Education*

**Susan M. Donahue**, Chicago, IL; B.S.N. (The University of Iowa); *Nursing*

**Philip Lee Early**, Alliance; B.S.Pharm.; *Pharmacy*

**Henry Sylvester Elchert**, Tiffin; B.S.Agr.; *Agricultural Education*

**Lisa Kay Elderbrock**, Findlay; B.A. (Muskingum College); *Statistics*

**Steven William Ellingson**, Jacksonville, FL; B.S. (Clarkson University); *Electrical Engineering*

**Amelito Gomez Enriquez**, Calocan City, Philippines; B.S. (The University of the Philippines); *Geodetic Science and Surveying*

**Li-Hwa Fang**, Taichung, Taiwan, R.O.C.; B.S. (The National Taiwan University); *Mechanical Engineering*

**Steven John Farmer**, Pemberville; B.S.Agr.; *Animal Science*

**Howard Allan Fencil**, Schuyler, NE; B.S. (Nebraska Wesleyan University); *Computer and Information Science*

**Eduardo Antonio Fernandez Falcon**, Buenos Aires, Argentina; *Geodetic Science and Surveying*

**Daniel Smith Finley**, New London; B.S.Pharm.; *Pharmacy*

**Janet Morrison Foeter**, Dayton; B.S. (Franklin University); *Natural Resources*

**Deanna M. Fry**, Cincinnati; B.S. (The University of Cincinnati); *Environmental Biology*

**Joe Tjin Fui**, Indonesia; B.S. (University of Florida); *Electrical Engineering*

**Aristides Stavros Galanopoulos**, Agrinio, Greece; Diploma (National Technical University of Athens); *Electrical Engineering*

**Suzanne West Gerlach**, Columbus; B.S.N. (Capital University); *Nursing*

**Anil Goel**, Delhi, India; B.E. (Delhi College of Engineering); *Mechanical Engineering*

**Scott Benson Grissom**, Dallas, TX; Bachelor's (Texas A & M University); *Computer and Information Science*

**Daniel Paul Haas**, Dublin, B.S. (Temple University); *Pharmacy*

**John Milton Hall**, Dallas, TX; B.S. (Texas A & M University); *Computer and Information Science*

**Donald Valentine Hallock**, Bridgeville, PA; B.S.A.A.E.; *Aeronautical and Astronautical Engineering*

**Myoung-Soo Han**, Seoul, South Korea; B.A. (Dongguk University); *Industrial and Systems Engineering*

**Mabrouka Hani**, Tunisia; B.S.M.E.; *Mechanical Engineering*

**Barbara Ann Harrison**, Columbus; B.S. (University of Delaware); *Chemistry*

**Joel Robert Hartman**, Fish Lake Valley, NV; B.S., B.S. (LeTourneau College); *Welding Engineering*

**Kyle Jay Hartman**, Columbus; B.S.Nat.Res.; *Environmental Biology*

**George Estandy Hassoun**, Batha, Kesrovan, Lebanon; B.S. (Lebanese University); D.O.Sp.Avonics (Ensaie); *Aeronautical and Astronautical Engineering*

**David Edward Heffner**, Troy; B.S.Nat.Res.; J.D. (The University of Cincinnati); *Natural Resources*

**Sunho Hong**, Seoul, South Korea; B.S. (Seoul National University); *Statistics*

**Kevin Scott Hoyer**, Westerville, B.S. (Case Western Reserve University); B.A. (Marietta College); *Mechanical Engineering*

**Dennis D. Humphreys**, Columbus; B.S. (Youngstown State University); M.S. (Ohio University); *Computer and Information Science*

**Colville Griffith Hutchinson**, Tappahannock, VA; B.S. (Virginia Polytechnic Institute); B.S. (Virginia Polytechnic University); *Agricultural Economics and Rural Sociology*

**Wendy Sue Hutchinson**, Kettering; B.S.C.E.; *Civil Engineering*

**Jann Machotka Ichida**, Delaware; B.S. (University of Wisconsin at Madison); *Preventive Medicine*

**Diane Kay Impellizeri**, Manville, NJ; B.A. (Stockton State College); *Home Economics*

**David Brian Kallander**, Hamilton; B.S. (Miami University); *Entomology*

**Sridar Kandaswamy**, Olmsted Township; B.S. (Case Western Reserve University); *Electrical Engineering*

**George Kanellopoulos**, Athens, Greece; B.S.Bus.Adm. (Athens Graduate School); *Computer and Information Science*

**Hang-Bong Kang**, Jinhai, South Korea; B.S. (Hanyang University); *Electrical Engineering*

**Richard Tucker Kaul**, Westerville; B.S.; M.S. (University of Illinois at Urbana-Champaign); *Electrical Engineering*

**Mark Eugene Kelley**, Canton; B.S.Agr.; *Geology and Mineralogy*

**Steven Curtis Kenyon**, Columbus; B.S. (Pennsylvania State University); *Geodetic Science and Surveying*

**Bradford Lee Kess**, Beachwood; B.S.Food Tech., D.D.S., M.A.; *Dentistry*

**Patricia McGuire Kessler**, Rocky River; B.S. (Saint Louis University); *OSU Biochemistry Program*

- Hamza Sabea Khamees**, Columbus; B.S. (Baghdad University); *Geodetic Science and Surveying*
- Jongsoo Kim**, South Korea; B.S. (Seoul National University); *Mechanical Engineering*
- Nikolaos Kiritis**, Florida, Greece; B.S. (Wright State University); *Mechanical Engineering*
- Frederick T. Klevenow**, Columbus; B.S. (Case Institute of Technology); M.S.; *Mathematics*
- John Mews Klinger**, West Bend, WI; B.S. (The University of Wisconsin at Madison); *Mechanical Engineering*
- Joseph Albert Koberlein**, Uniontown; B.S. (The University of Akron); D.D.S.; *Dentistry*
- Kristin Benne Kremer**, Columbus; B.A. (Wittenberg University); *Natural Resources*
- Sriram Krishnaswami**, India; B.Tech. (Indian Institute of Technology); *Industrial and Systems Engineering*
- Suresh Kumar**, Bhagalpur, Bihar, India; B. Tech. (Indian Institute of Technology); *Ceramic Engineering*
- Todd William Lansinger**, Kent; B.S. (The University of Cincinnati); *Bio-Medical Engineering*
- Jia-Cheng Cindy Lao**, Shanghai, P.R.C.; B.A. (Berea College); *Statistics*
- Stephane Rene Latreille**, Grenoble, Isere, France; Baccalaureat (Lylee Champollion Grenoble); Ing. Cinl. des Mines (Ensaye Saint-Etienne); *Metallurgical Engineering*
- Jin-Kook Lee**, Seoul, South Korea; B.S. (Seoul National University); *Home Economics*
- Pey-Chii Lee**, Taipei, Taiwan, R.O.C.; B.A. (Tunghai University); *Food Science and Nutrition*
- James Richard Lemon**, Mechanicsburg; B.A.; *Entomology*
- Dorcas Anne Lewie**, Troy; B.S.Nurs.; *Nursing*
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- Robert John Limardi**, Brooklyn, NY; B.S. (Union College); D.D.S. (State University of New York at Stony Brook); *Dentistry*
- Bih-Fen Lin**, Taipei, Taiwan, R.O.C.; B.S. (National Taiwan Normal University); *Microbiology*
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- Zhenzhi Lin**, Shanghai, P.R.C.; B.S. (The University of Science and Technology of China); *Physics*
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- Richard Lowry**, Pembroke, NC; B.A. (The University of California at Berkeley); M.D. (Case Western Reserve University); *Preventive Medicine*
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- Timothy Frederick Mengers**, Chillicothe; B.S. (University of Cincinnati); *Nuclear Engineering*
- Tarek Fawzy Messiha**, Cairo, Egypt; B.S. (Cairo University); *Civil Engineering*
- Pavlos George Mikkellides**, Larnaca, Cyprus; B.S.A.A.E.; *Aeronautical and Astronautical Engineering*
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- Maria Agnes Puangco**, Jacksonville, FL; B.S. (Florida State University); *Allied Medical Professions*
- Dharmendra Mythili Ramachandra**, India; B.S. (Osmania University); *Mechanical Engineering*
- Mahendra Arcot Ramachandran**, Madras, India; B.S.C.I.S.; *Computer and Information Science*
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**Jeannette Kay Rea**, West Cape May, NJ; B.S. (Rutgers University); *Agricultural Education*

**Joy A. Reichenbach**, Bluffton; B.S.N. (Bluffton College); *Nursing*

**Jeffrey Dwayne Reiswig**, Xenia; B.A. (Oberlin College); D.V.M.; *Animal Science*

**Erwin Renz**, West Germany; Diploma (University of Stuttgart); *Engineering Mechanics*

**Charity Jocelyn Repko**, Gilbertsville, PA; B.S. (West Virginia Wesleyan College); *Home Economics*

**Louis John Rezanka**, Campbell; B.S. (Case Western Reserve University); *Veterinary Pathobiology*

**Gregory Andrew Ricketts**, Columbus; B.S.E.E.; *Bio-Medical Engineering*

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**Derrick Keith Rollins**, Kansas City, MO; B.S. (University of Kansas); M.S.; *Statistics*

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**Sharon Ann Sack**, Amsterdam; B.S.Nurs.; *Nursing*

**Ioannis Georgios Samiotakis**, Athens, Greece; B.S. (The University of Athens); *Computer and Information Science*

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**Douglas Ashley Schober**, Phoenix, MD; B.S. (Delaware Valley College of Science and Agriculture); M.S.W. (Hahnemann Medical College and Hospital); *Animal Science*

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**Timothy Brian Shay**, Annville, PA; B.S. (Shippensburg University); *Chemistry*

**Richard William Shields**, Columbus; B.S.Ch.E.; *Chemical Engineering*

**Rodrigo Sierra Maldonado**, Quito, Ecuador; Licenciatura (Universidad Catolica del Ecuador); *Natural Resources*

**Darius Simon**, Jakarta, Indonesia; B.S.E.E.; *Electrical Engineering*

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**Alan Thomas Stadler**, North Royalton; B.S.C.E.; *Civil Engineering*

**Douglas William Stearn**, Estes Park, CO; B.S. (Colorado State University); *Pathology*

**Sivakumar Sundaresan**, Columbus; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*

**Margaret Steele Swartout**, Oak Ridge, TN; B.S., D.V.M. (University of Tennessee at Knoxville); *Veterinary Clinical Sciences*

**Yu-Hui Tao**, Taipei, Taiwan, R.O.C.; B.S. (Tunghai University); *Industrial and Systems Engineering*

**Anil V. Thenamkodath**, Kerala, India; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*

**Scott David Thomas**, Akron; B.S. (Grove City College); *Mechanical Engineering*

**Stephen Albert Thomson**, Westerville; B.S. (Georgia Institute of Technology); *Computer and Information Science*

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**Vilwanathan Varadhan**, Madras, Tamilnadu, India; B.Tech. (Indian Institute of Technology); *Mechanical Engineering*

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**Shaohua Wang**, Beijing, P.R.C.; B.S. (Lanchow University); *Zoology*

**Patricia Mendoza Watson**, Hilliard; B.S. (The University of Texas at El Paso); *Mining Engineering*

**Franz Christian Weckesser**, Dublin; B.S., M.B.A. (Bowling Green State University); *Computer and Information Science*

**Monique Yvette Wells**, Houston, TX; B.A., D.V.M. (University of Pennsylvania); *Veterinary Pathobiology*

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**Ronald Lee Winland**, Zanesville; B.S.Agr.; *Agronomy*

**Paula Marie Withrow**, Beaver Falls, PA; B.S. (Duquesne University); *Pharmacy*

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**Kenneth Leslie Wong Lim**, Colon, Panama; Cirujano-Dentista (Universidad Autonoma de Guadalajara); *Dentistry*

**Flavio Cooji Yamaguchi**, Sao Paulo, Brazil; B.S. (University of Sao Paulo); *Agricultural Economics and Rural Sociology*

**Darleen Lynne Yancer**, Westerville; B.S. (The University of Akron); *Computer and Information Science*

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**Wee Lane Yee**, Columbus; B.S. (George Mason University); *Entomology*

**Wenhan Zhang**, P.R.C.; B.S. (Institute of Mining and Technology); *Mining Engineering*

## **Master of Social Work**

**Bernice Kay Adams**, Columbus; B.S.Ed.; *Social Work*

**Carole Wright Alder**, Athens; A.B. (Ohio University); *Social Work*

**Jennifer Lynn Amidon**, Bellefontaine; B.S.SocWork; *Social Work*

- Judith Rose Arroyo**, Columbus; B.A. (University of Akron); *Social Work*
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- Frances Bednar**, Camarillo, CA; B.A. (Mount Saint Mary's College); *Social Work*
- Tara Lynn Bell**, Princeton Junction, NJ; B.A. (Miami University); *Social Work*
- Christine Black**, Washington Court House; B.A.S.W. (Wright State University); *Social Work*
- Carol Jeffers Borelli**, Ashtabula; B.F.A.; *Social Work*
- Lisa Marie Borelli**, Columbus; B.S.Ed.; *Social Work*
- John Edward Brandel-Tatro**, Davison, MI; B.S.Soc.Work; *Social Work*
- Marcia Lenore Brecht**, Grove City; B.A. (Findlay College); *Social Work*
- Donald James Brewer**, Reynoldsburg; B.S.Soc.Wel.; *Social Work*
- Dawn Marie Brodnick**, Mentor; B.A. (Cleveland State University); *Social Work*
- Judy Lynne Cameron**, Johnstown, PA; B.A. (University of Pittsburgh); *Social Work*
- Debra Cavanagh**, Beavercreek; B.A.S.W. (Rutgers University); *Social Work*
- Jeanette Marie Chairez**, Collins; B.S.W. (Capital University); *Social Work*
- Sara Chay**, Israel; B.S.W. (Bar Ilan University); *Social Work*
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- Kathleen A. Coate**, Columbus; B.S.Ed.; *Social Work*
- Thomas William Conley**, Columbus; Bachelor's (Ohio University); *Social Work*
- Leslyn Marie Coombs**, Rolling Meadows, IL; B.S.(Capital University); *Social Work*
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- Ildiko Elizabeth Crawford**, Mt. Gilead; B.A. (University of Toledo); *Social Work*
- Marlene Nygard Daubert**, Columbus; B.S. (Northwest Missouri State University); *Social Work*
- Mary A. Duffner**, Cincinnati; B.S.Soc.Wel. (Xavier University); *Social Work*
- Paula Alice Duplessis**, Lancaster; Bachelor's (Ohio University); *Social Work*
- Mitchell Keith Eckstein**, Columbus; B.S.Soc.Wel.; *Social Work*
- Elizabeth Natalie Egyes**, Columbus; B.S.Soc.Work; *Social Work*
- Cheryl Lomaz Evans**, Bexley; B.A. (Ursuline College); *Social Work*
- Veronica Ann Finnegan**, Shelby; B.S.Soc.Work; *Social Work*
- Evelyn Ford**, Bamberg, SC; B.A. (Morris College); *Social Work*
- Debra Jean France**, Worthington; B.A. (Ohio University); *Social Work*
- Mary Jane Jost Frank**, Pickerington; B.S.W. (Capital University); *Social Work*
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- Teresa Sha Gordon**, Columbus, IN; B.A. (Purdue University); *Social Work*
- Peggy Sheryl Gouch**, Columbus; B.A. (Oberlin College); *Social Work*
- Karen Marie Grider**, Granada Hills, CA; B.A. (Wheaton College); *Social Work*
- Richard Jeffrey Griss**, Middletown; B.A.; *Social Work*
- Bettina Angela Guyann**, Newport News, VA; B.A. (Elizabeth City State University); *Social Work*
- Carolyn Jane Gyuro**, Columbus; B.A.; *Social Work*
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- Karen Ann Jones**, Cleveland; B.A.S.W. (The University of Akron); *Social Work*
- Alfred Louis Joseph**, Columbus; B.A.; *Social Work*
- Ann Catherine Junkin**, Wooster; B.A. (The College of Wooster); *Social Work*
- Kathleen Uilani Kameenui**, Honolulu, HI; B.A. (The University of Hawaii); *Social Work*
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- Deborah Susan Lauber**, Owosso, MI; B.A. (Wheaton College); *Social Work*
- Eric John Lawrence**, Pataskala; B.A.; *Social Work*
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- Susan Lynn Macik**, Jamestown; B.A. (Urbana University); *Social Work*
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**Nicki D. Trout**, Huntsville; B.A. (Urbana  
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**Tracy Kathleen Vosdoganes**, Toledo;  
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**Mauria Kirkpatrick Wideman**,  
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**Kimberly Ann Woodyard**, Granville;  
B.A.; *Social Work*

**Jean Kauffman Yost**, Columbus; B.A.  
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**Michael C. Zorich**, Columbus; B.S.Ed.,  
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Anthony Thomas Bernens, Cincinnati  
John Maxwell Brown, Columbus  
Liana Grace Coutts, Delaware  
Lisa Fay Cribbs, Hamilton  
Cindy K. Crouse, Toledo  
Nancy Ann DeLapa, Akron  
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Jeffrey Lynn Felkey, Lima  
Deborah Lynn Gissinger, Clinton  
Mark Allen Irvin, Smithville  
Kevin Sean Kinlin, Dayton  
Scott Dwain Kneisley, Grafton  
William Anthony Krause, Bedford Heights  
Jeffrey Allen Lutz, Dayton  
Wan-Hsing Mair, Taipei, Taiwan, R.O.C.  
Scott Jeffrey Manders, Marengo  
Frederick Craig Moore, Gahanna  
Rebecca Marie Murtaugh, Cincinnati  
Ralph Jeffrey Peak, Louisville  
David Thomas Ralley, Worthington  
Marguerite Cleveland Shiff, Cincinnati  
O. Keith Shannon, Orient  
Candace Ebner Thrush, Columbus  
Nicole Ann Walker, Lakewood  
Christopher Merle Wells, Elyria  
Karen Elizabeth Widder, Cincinnati  
Joseph Andrew Wink, Columbus  
Sara Ann York, Xenia  
Sabra Jan Zahn, Littleton, CO  
William Hampton Zimmerman, Huntsville, AL

### Bachelor of Fine Arts

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Cheryl Lyn Beck, Pittsburgh, PA  
Nilza M. Bianco, Thiells, NY  
Susan Faith Brown, Lyndhurst  
Mark Collin Burnett, East Liverpool  
Carla Jean Burson, Salem  
Angela I. Cain, Caledonia  
James Eugene Cross, Strongsville  
Richard Whitman Davis, Lighthouse Point, FL  
Deborah Marie Downs, Englewood  
Patricia A. Dragony, Parma  
Sara Margaret Green, New York, NY  
David Patrick Hess, Cleveland  
Stephen Ray Hughes, Nicholasville, KY  
Kelly Kathleen Hunt, Worthington  
Carol Pfender Jernigan, Marion  
Abby Lynn Kantor, Glenview, IL  
Barbara Anne Koyle, Canton  
Shawn Angus MacInnis, Germantown  
Christopher Dean Madden, Arcanum  
Mary Michelle Middeler, Columbus  
Gary Lawrence Molina, Parma  
Jeffrey Lawrence Murphy, Kettering  
Holly Marie Natwora, Columbus  
Robert Joseph Neveu, Columbus  
Erin Stephanie O'Toole, Powell  
Mary Kathryn Plummer, Westerville  
Deborah Lee Rhodes, Garrettsville  
Florence Michelle Santos, Cincinnati  
Alexander Gust Savakis, Warren  
Scott Andrew Skiles, Pickerington  
Richard Ramsay Stander III, Mansfield  
Daniel Jay Sullivan, Columbus  
Darren Howard Thompson, Plain City  
Warren Allen Trefz, West Union  
Peter Alan Wieneke, Middletown  
Donna Jean Zoll, Columbus

### Bachelor of Music

Stefanie Ann Dennis, Kansas  
Christina Naumoff Dorinsky, Orrville  
James Joseph Dorinsky, Columbus  
Margaret Ann Fischer, Euclid  
Jodi Sue Graham, Cincinnati  
Dale Ann Gray, Grove City  
Marcus Shawn Gresham, Columbus  
Jeffrey Allan Montgomery, Columbus  
Sarah Woodward Paul, Worthington  
Harry Joe Polen, Jr., Alliance  
Maria Lynn Renzetti, Columbus  
Stephanie Ann Summers, Clyde

### Bachelor of Art Education<sup>1</sup>

Kristen Benedict Marra, Mayfield Village  
Jacqueline Kay Schomer, Warren

<sup>1</sup>Offered by the College of the Arts

### Bachelor of Art Education<sup>2</sup>

Laura Christine Butler, Akron  
Mary Bridget Crowley, Columbus  
Judith Ann Fox, Boone, NC  
Shawn R. Gatton, Bellville  
Lynne Ann Grace, Hudson  
Scott Elwood Hartman, Troy  
Theresa Anne Hibner, Wapakoneta  
Barbara Ann Rogers, Pataskala  
Jeff Lynn Satterfield, Madison  
Teri Lynn Shook, Chesterhill  
Kevin Howard Storch, Greenfield, IN  
Dana Fritz Worth, North Royalton  
Patricia Mary Yost, Newark

### Bachelor of Music Education<sup>3</sup>

Kathleen Ann Boes, Upper Sandusky  
Deborah Ann Borland, Alliance  
Marie Curth, Newark  
Bryan Lynn Day, Shelby  
Christina Naumoff Dorinsky, Orrville  
Mary Joanne Evans, Columbus  
Michael Joseph Ferguson, Cincinnati  
Suzanne Marie Goedde, Lima  
Christy Kathleen Hoey, Kettering  
Amy Marie Isler, Massillon  
Scott Allan Jones, Fairfax, VA  
Kurt Mehl, Columbus  
William Porter Myers, Toronto  
Elizabeth Ann Natali, Hamilton  
Alan Michael Nordyke, Wilmington  
Kristin Lee Oberhaus, Gibsonburg  
Harry Joe Polen, Jr., Alliance  
Michelle Joan Rachocki, Worthington  
Julie Rose Rolwing, Reynoldsburg  
Judith Renee Smith, Amlin  
Miranda Diane Smucker, Grove City  
Shelly Ann Sparks, Mechanicsburg  
Wendy Jo Turner, Coshocton  
Pamela Jean Urig, Lancaster  
Julie Leslie Vish, Columbus  
Kathryn Anne Zimmann, Salem  
George Jay Zonders, Westerville

### Bachelor of Science in Audio Recording

John Paul Azelvandre, Columbus  
James Joseph Dorinsky, Columbus  
Brian Scott Kallahaer, Urbana  
Matthew Everett Young, Rossford

### Bachelor of Science in Industrial Design

Steven Michael Andreano, Brooklyn  
Daniel Murray Beam, Cambridge  
Theresa Diane Bell, Upper Arlington  
Karine Lynn Bielefeld, Cleveland  
Sharon Adrian Bryant, West Jefferson  
Mark Vincent Budde, Cincinnati  
Eden Elinor Carlson, Bowling Green

<sup>2</sup>Offered jointly by the College of the Arts and the College of Education

Kathleen Lisa Patricia Chen,  
Fairview Park  
Ching Ching Chung, Centerville  
Stephanie Marie Conner, Columbus  
Megan Elizabeth Cook, Columbus  
Kelly Maureen Corcoran, Columbus  
Gary Lee Dailey II, Columbus  
Jerald Edward Durkin, Barborton  
Ruthanne Evey, Cleveland Heights  
Daniel Scott Fiser, Defiance  
Benjamin Cotter Goodman, Columbus  
Kelly Ann Horton, Zanesville  
Kenneth James Hydak, Strongsville  
Dimitrios Evan Kargiotis, Brecksville  
Martin William Keen, North Andover  
Molly Marie Kestner, Lyndhurst  
Jeffrey Lee Kimble, Fostoria  
Robert W. Krieg, Vienna  
Bonnie Campbell Lattimer, Pataskala  
Richard Galen Loos, St. Clairsville  
Cynthia Ann Lualien, Perryburg  
Eugene John McHugh, Mayfield Heights  
Sean David Montag, Akron  
Michelle Dawn Meyer, Columbus  
James Edward Molloy, Cincinnati  
Thomas Mark Morbitzer, Columbus  
Jan Paul Ostendorf, Waynesville  
Douglas Kent Ritterling, Columbus  
Susan Marie Ritzman, Norton  
Fernando Miguel Rojas, Guaynabo, PR  
Johanna Lynn Schroeder, Toledo  
Loretta Elizabeth Sherman, Kettering  
Barry Webster Smith, Columbus  
David Alan Smith, Cincinnati  
Kenneth Howard Tonne, Cincinnati  
Natalie Jane Trees, Granville  
Jill Leon Welch, Cuyahoga Falls  
Rodney L. Wilder, Newark  
Jeffrey Michael Worth, Pittsburgh, PA

## College of Biological Sciences

Dean: William A. Jensen

### Bachelor of Arts

Caroline C. Chromey-Skoulakis, Toledo  
Tina Marie Drum, Stoutsville  
Brian Robert McMillan, Mt. Vernon  
Brian MacDermott Mehling, Centerville  
Kristina Ann Smetana, Marysville  
John Michael Zitel, Richmond Heights

### Bachelor of Science

Jorge Luis Acevedo, Lares, PR  
Suzanne Michele Adams, Fairborn  
Jerald Stuart Altman, Beachwood  
Christy Elizabeth Antonio, Columbus  
Steven Petar Balalowski, Columbus  
Elizabeth Marie Bankoske, Erie, PA  
Karen Sue Barnes, Sycamore  
Jack Broadwater Basil, Columbus  
Jeffrey Alan Becker, Canton  
Louise Anne Berkal, Columbus  
James Thomas Bohmer, Cincinnati

Theresa Marilyn Burkhart, Barnesville  
Karen Cox Butsch, Westerville  
Michael George Chrissos,  
Upper Arlington

Lauren Hope Cohen, Beachwood  
Michael David Conaway, Hilliard  
Lisa Renée Cottrell, Alexandria  
Deborah Ann Covucci, Toledo  
Steven Warren Crawford, Portsmouth  
Patrick McCrory Dull, Greenville  
Bradley David Egbert, Sidney  
Deborah Ann Fahey, Columbus  
Derek James Faridad, Bayside, NY  
Susan M. Fedinec, Lisle, IL  
Victoria Marie Fimiani, Mentor  
Barrett Michael Finnell, Worthington  
Karen Yvonne Floyd-Beaver,  
New Haven, CT  
Sheryl Anne Forest, Mentor  
John Austin Fry, Columbus  
Cynthia Leigh Gordon, Cincinnati  
Jennifer Lynn Haley, Canton  
Robert Edward Hall, Jr., Newgarden  
Katherine Lewis Henneberg, Cincinnati  
Eric Wayne Hickman, Lucasville  
Melinda Lou Hoffman, Worthington  
William Eugene Hopkins, Bloomingdale  
John Kelly Hughes, Columbus  
Julie Rebecca Jackson, Baltimore, MD  
Aurelia Jeannette Jackson, Columbus  
Michael Scott Kinch, Hamilton  
Denise Lavern Koncelik, North Lawrence  
Seth Daniel Kraner, Carroll  
Tammi Jo Kurty, Toronto  
Bernadette Lanchman, Highland Heights  
Nancy Paula Lazar, Worthington  
Michael Robert Leech, Mansfield  
Matthew David Lindau, Sylvania  
Nicole Aleene Manns, Miamisburg  
Suzanne Elinda Masters, Columbus  
Denise Marie McAadoo, Fairfield  
Franklin Arthur Michota, Jr., Sylvania  
Matthew Alan Misicka, Columbus  
Darren Blaine Nease, South Point  
Daniel Ernest Neely, Fairborn  
Susan Renee Opalenik, Wadsworth  
Gale Edward Pace, Columbus  
Melinda Kay Pauff, Lima  
Sean Merle Pflaumer, Bellevue  
Michael Joseph Phipps, Steubenville  
Cynthia Jo Price, Tiro  
Baljit Singh Rangit, Worthington  
David Mark Raskin, Mayfield Heights  
Leslie Ann Reuss, Marysville  
Evangeline Summon Ricks, Monrovia,  
Liberia  
Sarah Beth Riegel, Greenville  
Scott Alexander Ring, Newark  
Keith Edward Rosenbaum, Parma  
Richard Todd Rubin, Cincinnati

Ingrid Karen Ruf, Akron  
Mary Alice Russell, Columbus  
Janelle Ruth Salkowitz, Lorain  
Todd Allen Salmans, Coshocton  
Robert Wayne Sandrock, Elmore  
Scott Patrick Santee, Huron  
Dalia Ruth Schwartz, Columbus  
Christopher Michael Scowden, Troy  
Brian Scott Seifferth, Centerville  
Deborah Lynn Shardy, Brookfield  
Brian Mathew Schiff, Toledo  
Janet Sue Skarda, Sylvania  
Tarick K. Smali, Toledo  
Larry Edward Smith, Mansfield  
Dana Lynne Stauffer, McKeesport, PA  
Michael James Stein, Columbus  
Robert Paul Stephens, Brecksville  
Sarah Elizabeth Stiles, Kenton  
Branka Stojavljevic, Hinckley  
Charles Patrick Sweeney, Columbus  
David Charles Taylor, Pepper Pike  
Lee Parks Theaker, Bridgeport  
Peter Joseph Torok, North Olmsted  
Michelle Ann Tremko, Bronx, NY  
Stephanie Leigh Trent, Grove City  
Salvador Bernard Trinidad, South Vienna  
Anju Tripathi, Lansing, MI  
Laura Marie Tuhela, Solon  
Adam Charles Tzagournis, Columbus  
Patrick Anthony Vaglienti, Columbus  
George Charles Van Aman III, Findlay  
Lori Michelle Vance, Medina  
Cheryl Lynn Van Epps, Dover  
Jodie Lynn Vargo, Newark  
Penny Talyne Way, Cleveland  
David James Welty, Columbus  
Christopher John Wible, Dayton  
Anna Marie Woodson, Willowick  
Sandra Lynn Yates, Middleburg Heights  
Matthew Ray Yerkey, Salem  
Jau Uon Yu, Columbus

## College of Humanities

Dean: G. Micheal Riley

### Bachelor of Arts

Robert Arthur Adamcik, Cleveland  
Douglas John Alford, Norwalk  
Suzanne L. Amra, Cleveland Heights  
Harold James Anderson III, Fostoria  
Portia Marlene Anderson, Columbus  
Lynda Atriano, Columbus  
Cortney Elizabeth Baird, Bay Village  
Melinda Kay Bako, Akron  
Cynthia Lynn Balzer, McMurray, PA  
Suzanna Christine Barth, Columbus  
James McDowell Beale, Pataskala  
Deborah Lynne Beckerich, Kettering  
Karin M. Beehler, Cliffside Park, NJ  
Barbara Ann Bender, Columbus  
Gregory Thomas Betscher, Mansfield  
Amy Jo Blackstone, New Concord  
Dianne Kay Blankenbaker,  
Upper Arlington  
James Kevin Borland, Marion

Amy Louise Bowman, Mansfield  
 William David Branstool, Utica  
 Terry Layne Brodhag, Columbus  
 Brenda Renee Brown, Lima  
 Mary Anne Brown, Columbus  
 Bonnie L.B. Butcher, Columbus  
 Lauren Holly Candela, Cleveland  
 Jennie Babcock Chapman, Columbus  
 Jessica Jennings Clark, Fort Knox, KY  
 Lynette Marie Cline, Warren  
 Daphne Deanne Coe, Newark  
 Michael L. Cole, Crestline  
 Donovan Erwin Collins, Wallingford, CT  
 Dean James Connolly, Kent  
 Mark Douglas Cooper, Russellville  
 Maryellen Corna, Columbus  
 Paige Anne Crossley, Grove City  
 Ellen Elizabeth Damko, Sandusky  
 Thomas Michael Dee, Cleveland  
 Susan Louise Deister, Columbus  
 Clorinda Theresa DelGigante,  
 Lindenhurst, NY  
 Brandy Kaye Deniso, Worthington  
 Ethan Robert Dicks, Columbus  
 Anne Marie Drake, Columbus  
 Ondrea Alexis Duto, Cincinnati  
 Paul Steven Eisenstein, Bexley  
 Alecia Jean Ensign, Wellington  
 Teresa Marie Essman, Columbus  
 Donald John Fallon, Columbus  
 Monika Christina Foy, Columbus  
 Ann Margaret Gametsfelder, Newark  
 Christine Anne Gayton, Columbus  
 Prudence Dewey Gould, Columbus  
 Sara Margaret Green, New York, NY  
 Richard John Grega, Columbus  
 Paul Raymond Greve, Botkins  
 Andrew Scott Gudgel, Warren  
 Mark Sigmar Gutentag, Pepper Pike  
 Angela Louise Guzzo, Columbus  
 Melissa Louise Hart, Columbus  
 Stephanie Jeanne Herwick, Wadsworth  
 Sally Annette Hess, Upper Arlington  
 Susan Elizabeth Hill, Toledo  
 Laurel Lee Hodory, Cincinnati  
 Shea Louise Holtzman, Grove City  
 Thisbe Marguerite Ingold,  
 University Heights  
 Paulette Marie Ivan, Hartville  
 Craig Brendan Jacobsen, Worthington  
 Linda Patricia Johnson, Euclid  
 Glenn Thomas Jones, Otway  
 Christopher Jon Kaune, Newburgh, IN  
 Mary Jennifer Klein, Akron  
 Mark Edward Knapp, Sylvania  
 Bonnie Zoe Kuhn, Columbus  
 Stacie Helaine Kulback, Hamilton  
 Matthew Allan Lambert, Bellefontaine  
 Lawrence Wayne Lanum, Trotwood  
 John Thomas Lasher, Akron  
 Robert J. Lavigna, Bath, PA  
 Theresa Ann Leonard, Columbus  
 Pamela Kaye Lewis, Akron  
 Jennifer Lee Leymaster, Westerville  
 James Andrew Lodico, Findlay  
 Cynthia B. Logan, Ashville  
 James Gerard Luebke, Cincinnati  
 Christine Mary Luehrs, Upper Arlington

Maura Lavender MacDonagh,  
 Ducksbury, MA  
 Raymond James Madzia, Columbus  
 Nora Malone, Avon Lake  
 Molly Anne Mantz, Columbus  
 M. Bridgette Mariea, Columbus  
 Christine Rae Marrell, Columbus  
 Gary Allen Martin, Columbus  
 Karen Elizabeth Maxwell, Columbus  
 Cathleen Ann McBride, Columbus  
 Gloria Anne McCauley, Columbus  
 Tina Maria McCullough, Columbus  
 Matthew David McDaniel, Newark  
 Marc Richard McDowell, Columbus  
 Jozefa H. Mentrak, Columbus  
 Valerie Lynn Merklin, West Jefferson  
 Trenton Douglas Merricks II, Newark  
 Kristine Maria Meyer, Circleville  
 Julie Ann Miller, Willoughby Hills  
 James Richard Mitchell, Cuyahoga Falls  
 Thomas Mlakar, Lorain  
 Kwyn L. Moffitt, Zanesfield  
 Michelle Yvonne Molano, Strongsville  
 Kara Ann Morgan, Waynesfield  
 Jodi Beth Morrison, University Heights  
 Emily Magdalene Mott, Dayton  
 Patricia Ann Muraski, Centerville  
 Paul Andrew Murray, Lakewood  
 Stephen Robert Murray, Fredericktown  
 Anna Maria Neal, Lima  
 Jeffrey Hill Nicholl, Moreland Hills  
 Robert Allen Noggle, Versailles  
 Erin Lee Noviski, Columbus  
 Margaret Mary Olsen, Broadview Heights  
 Juyong Pae, Dayton  
 Tamarah Therese Parson, St. Thomas, VI  
 Michael Ben Pasternak, Beachwood  
 John Gregory Patroulis, Toledo  
 Benjamin Edward Patterson, Dublin  
 Raymond Joseph Paumier, East Canton  
 Ifigenia Polychronis, Kettering  
 Kris Reed Poppe, New Bremen  
 D. Scott Powell, North Canton  
 Teresa Lynn Pyles, Grove City  
 Kimberly Diane Ramey, Lexington  
 Stanley Joseph Rapiey, Garfield Heights  
 Jill Annette Redo, Columbus  
 Robert Joseph Reynolds, Norwalk  
 Diana Lynne Ricci, Newtown Square, PA  
 Nicholas Michael Ricciardi III, Brook Park  
 David William Riegel, Greenville  
 Patricia Ann Rieman, Wooster  
 Lori Beth Riga, Mayfield Heights  
 John Patrick Romano, Lancaster  
 Samuel William Rushay, Columbus  
 James M. Ryan, Groveport  
 Kimberly Ann Salamon-Smith, Richfield  
 James Robert Schaefer, Columbus  
 Judith S. Schumacher, Columbus  
 Marshall S. Scott, Findlay  
 Gilan A. Sharaf, Westerville  
 Stephen John Shaw, Columbus  
 Kenneth Richard Sibley, Columbus  
 Jonathan Paul Simon, West Orange, NJ  
 Jon Michael Sinclair, Springfield  
 Christienne Leigh Smith, Medina  
 James Michael Smith, Columbus  
 Scott David Smith, Piqua  
 Michael J Songer, Galion

John J. Spanik, Columbus  
 Martha Kay Stahl, Reading  
 Arthur Grant Stephens, Columbiana  
 Sara Christine Stoner, Galion  
 John David Sullivan, Pickerington  
 Elizabeth Gay Szames, Columbus  
 Sharyn Talbert, Columbus  
 Shalu Tandon, Marion  
 Beth Jo Terango, Euclid  
 Lisa Anne Thomas, Charlotte, NC  
 Christopher Ray Thompson, Columbus  
 Wade Hoffman Thorson, Pataskala  
 Martin Thurn, German Village  
 Lisa Kay Tilton, Bryan  
 Kenneth Joseph Tock, Niles  
 John Michael Tsironis, University Heights  
 MaryEllen Ullrich, Columbus  
 Sherry Jean Van Buskirk, Kenton  
 Christine Lynne Varady,  
 Mayfield Heights  
 David Nathaniel Wagner, Columbus  
 Katherine Ellen Walmsley, Sylvania  
 Mark Milo Walter, Norwalk  
 Diana Ross Webster, Columbus  
 Mark David Wigglesworth, Columbus  
 Carolyn S. Meckstroth Wilburn,  
 Columbus  
 Alicia Wolph, Fostoria  
 Lan Sze Wong, Worthington  
 Thomas M. Wood, Marion  
 Thomas Franklin Woodbury, Lima  
 Dorothea Yoakum, Cologne,  
 West Germany  
 Anthony T. Young, Columbus  
 Jeffery Cadle Young, Columbus  
 David Oskar Zimmer, Mentor  
 Karla Jean Zimmerman, Cincinnati

## College of Mathematical and Physical Sciences

Dean: C. William Kern

### Bachelor of Arts

Julie Marie Brinker, Greenville  
 John Merrit Ernst, Cincinnati  
 Thomas Stewart Fanning, Columbus  
 Tamara Marie McCoy, Columbus  
 Tillmon Miller, Sandusky  
 Nicholas Nissley, Hershey, PA  
 Paul Nathan Spahr, Forest Park  
 Herbert Lee Spanfeller, Gibsonburg  
 Jennifer Lea Stepp, Uniontown  
 Wen Ting, Taiwan, R.O.C.

### Bachelor of Science

Diane Marie Back, Middletown  
 Melinda Lee Bauder, Canton  
 Anne Margaret Bollinger, Columbus  
 Timothy Jan Bradrick, Mansfield  
 Eric William Braeden, Columbus  
 Daniel Michael Bremer, Worthington  
 Christopher Donald Burton, Euclid

Richard Andrew Carmean, Columbus  
 Edith Chang, Columbus  
 Nicholas Chun Hon Chung,  
 North Canton  
 Lisa Ann Cobourn, Perrysburg  
 Christopher Andrew Corna,  
 South Dennis, MA  
 Timothy Colin Crawford, Reynoldsburg  
 Lorna Beth Crimmins, Bel Air, MD  
 Keith Edwin Curnow, Sagamore Hills  
 Darrell Dean Dewese, Kenton  
 Daniel W. Elwell, Columbus  
 Julia Ann Etgen, Cridersville  
 John DeNoon Evans, Reynoldsburg  
 Michael Thomas Gibson, Columbus  
 Randy L. Gloor, Columbus  
 Richard John Grega, Columbus  
 Nancy Marie Heiner, Piqua  
 Margaret Mary Herten, Cleveland  
 Lisa Renee Hildebrand, Brunswick  
 Jeffrey Michael Hochman, Pittsburgh, PA  
 David Russell Hocutt, Berea  
 Larry Joseph Hoffman, Waverly  
 Erick Scott Horn, Beavercreek  
 Ruth Elaine Jackson, Columbus  
 Robert Lee Jones, Columbus  
 William David Kalies, Huron  
 Cynthia Jean Keaton, Gahanna  
 Christopher Glenn Keck, Bay Village  
 Kang San Kim, Springfield, VA  
 Joseph Lee Koen, Alliance  
 Brenda Lee Kratochvil, Chesterland  
 Robert Thomas Lee, Mentor  
 Christopher Martin Lott, Upper Arlington  
 Sean William Lynd, Cincinnati  
 Suzanne Marie Manning, Columbus  
 Kyle James Maurer, Rock Hill, SC  
 Thomas Dean McElwee, Galena  
 Amy Susan McKee, Chesterfield, MO  
 Thomas Dean McKinley, Kenton  
 David Gerard Miller, Lorain  
 Thomas Wesley Miller, Springfield  
 Wendie Margaret Moore, Cincinnati  
 Richard Larry Morgan, Massillon  
 Michael Lewis Motto, Columbus  
 Brian Andrew Nagy, Worthington  
 Partha Shankar Nandi, Wayne, MI  
 Garvin B. Nickell, Cincinnati  
 Dennis Paul O'Donovan, Cincinnati  
 Edward Joseph Prokop III, Parma  
 Fredrick Mark Reeve, Upper Arlington  
 Karen Judith Reich, Elyria  
 Judith A. Ritchey, Columbus  
 Beth Ann Ross, Columbus  
 Judith Louise Sands, Columbus  
 Sharon Keith Sauls, Columbus  
 Michael Alan Schecter, Bexley  
 John Howard Snelling, Jr., St. Paris  
 Gail Suzanne Stennett, Stow  
 Laurie Michael Takacs, Painesville  
 Jeffrey Harrison Templeton, Kettering  
 Martin Thurn, German Village  
 Michael Alan Titko, Ashtabula  
 Scott Bryan Tofil, Austintown  
 Dennis R. Unver, Canton  
 Andrew Ricardo Vargas, Norwalk  
 Lori Ann Waugh, Lancaster  
 Penny Talyne Way, Cleveland  
 Athena Yiamouyiannis, Delaware

## College of Social and Behavioral Sciences

Dean: Joan Huber

### Bachelor of Arts

Anthony Mitchell Adams, Toronto,  
 Ontario, Canada  
 Lori Helene Altman, Cincinnati  
 Jeffrey Scott Amsler, Williamsport, PA  
 Karey Marie Ancil, North Canton  
 Lori Sue Andrews, Columbus  
 Margaret Harriet Antill, Tiltonsville  
 Richard Gene Archer, Jr., Columbus  
 Megan Marie Arciello, Massillon  
 Krista Lee Argo, Marysville  
 Randy Douglas Arthur, Toledo  
 Shari Lynette Ayers, Baltimore  
 Jeffery Allen Baggs, Columbus  
 Jennifer Leigh Barrows, Paoli, PA  
 Allan Rex Baumgartner, Eastlake  
 Jennifer May Beach, Chagrin Falls  
 James McDowell Beale, Pataskala  
 Jeffrey Alan Belanger, Warren  
 Robert Paul Benner, Buffalo, NY  
 Kimberly Ann Bernard, Columbus  
 Mary Anne Betz, Paris  
 Jeffrey Gene Blakeman, Johnstown  
 Deborah Renee Bloom, Canton  
 Laura Ann Elizabeth Blue, Sagamore Hills  
 Sondra Bernadine Blue, Richwood  
 Edward Borowski, Northampton, MA  
 Janelle Annette Bosse, Cincinnati  
 Joseph Paul Bour, Columbus  
 Jamey Marie Boyle, St. Clairsville  
 Tod Hunter Boyle, Kent  
 Jeffrey Gehring Brehmer, Columbus  
 Julianne M. Brink, Columbus  
 Nancy Jayne Briton, Columbus  
 Cynthia Lette Bronson, Columbus  
 Charles Allen Brown, Powell  
 Sharon Marie Brown, Chesterland  
 Wanda Denise Brown Columbus  
 James Andrew Bruck, Columbus  
 Thomas Richard Bubanich, Columbus  
 Geneva Maureen Buckholz, Columbus  
 Kristin Pamela Bujak, Stow  
 David James Burgdorf, Amherst  
 Marina Marie Burghy, Thornville  
 Debra Denise Burke, Columbus  
 James Marcus Burke, Parma  
 Joy Pheny Burleson, Thurman  
 Joseph Alan Burley, Springboro  
 P. David Cain, Cincinnati  
 Genevieve Lea Calaway, St. Marys  
 Robert Edward Calesaric, Westerville  
 Michelle Beth Camp, Vienna, WV  
 Robert William Campbell, Jr., Delaware  
 Caryn Beth Candisky, Bay Village  
 George Michael Caplick, Euclid  
 Tracy Lynn Carr, Columbus  
 Kimberly Jean Carroll, Vandalia  
 Brian Lee Carter, Clinton  
 Christopher Scott Caton, Zanesville  
 Thomas Aneillo Cerreto, Galion

Christopher David Chapman,  
 Painesville Township  
 Jacqueline Chapman, Medina  
 Treg B. Charlton, San Diego, CA  
 Anurita Chaudhuri, Joliet, IL  
 John Tilman Childs, Barnesville  
 Amy M. Christen, Toledo  
 Catherine Mary Clausing, Worthington  
 Gary Gray Clift, Brunswick  
 Elizabeth Ann Clough, Shelby  
 Joanne Marie Clouse, Lancaster  
 Heather Louise Coen, Wooster  
 Katherine S. Coen, Columbus  
 Mark Allen Cohen, Pepper Pike  
 Christopher Collings, Upper Arlington  
 Carolyn Laura Collins, Columbus  
 Mark Robert Connors, Columbus  
 Mary Ellen Coogan, Worthington  
 Wanda Jean Corner, Columbus  
 Mark Edmond Coughlin, Columbus  
 Sally Cox, Forest Park  
 Shawn Crabtree, Marion  
 James Scott Creed, Baltimore  
 Rod C. Crider, Lima  
 Kimberly Ann Cullen, Sandusky  
 Amy GERALYN Currin, Montgomery  
 Rebecca Lynn Dalton, Westerville  
 Debra Ann Daniel, Elyria  
 Michele Eileen DeCosmo, Barrington, IL  
 Dan J. Dees, Mansfield  
 Melissa Ann Deighan, Painesville  
 Cynthia M. Deitle, Akron  
 Glen M. Delman, Orange  
 William Paul DeMora, Euclid  
 John Lowell Detrick, Delaware  
 Ann Elizabeth DiGirolomo,  
 Island Heights, NJ  
 Jonathan Douglas Dozer, Columbus  
 Tania Elaine Dudley, Mary Esther, FL  
 Kimberly Ann Dudge, Columbus  
 John Thomas Dunham, Findlay  
 Deborah Colleen Dunn, Kansas City, KS  
 David Charles Dunton, Cincinnati  
 Thomas Andrew Eberly, Massillon  
 Beth Ann Edwards, Worthington  
 Rick Alan Edwards, Pickerington  
 Erick Stephen English, Madison  
 Debra Lynn Erickson, Columbus  
 Thomas Sears Ernest, Shaker Heights  
 Jennifer Susan Falk, Cincinnati  
 Michele Marie Farrell, Columbus  
 David Alan Farrow, Columbus  
 Jennynan Feen, Columbus  
 Matthew Robert Ferguson, Cincinnati  
 Sandy Noreen Few, Dayton  
 Vickie Jeannette Fitzgerald, Columbus  
 Patricia Michele Flanagan, Columbus  
 Thomas Edwin Foss, Huron  
 Elizabeth Regina Fox, Warren  
 Margaret Earls Frank, Cincinnati  
 Rachel Colleen Frank, Chagrin Falls  
 Melissa Ann Freeman, Newark  
 Martin Van French, Parkersburg, WV  
 Scott Christopher Frost, Columbus  
 Harold Jacob Fryer, Jr., Hilliard  
 Manabu Fujii, Tokyo, Japan  
 Brian Scott Gabbard, Lebanon  
 Deanna Lynn Gach, Elida  
 Laura Anne Gallagher, Westlake

Jason Anthony Gambone, Canton  
 Jodi Lynn Garner, Moundsville, WV  
 Lee Gasaway, Columbus  
 Steven Jay German, Moreland Hills  
 Earl Laurence Gertsma, Berea  
 Susan Lee Gibson, Coshocton  
 Terrance Patrick Gillen, Odgensburg, NJ  
 Joshua Aaron Ginzler, Hubbard  
 Pamela Joanne Given, Westworth  
 Roger Anthony Glenn, Springfield  
 Mark William Gogel, Perrysburg  
 Stephanie A. Good-Riddick, Columbus  
 Paul Arnold Granzier, Jr., Cleveland  
 Charles McKinley Greenlee, Cincinnati  
 Jordan David Greenwald, Canton  
 Julie Ann Grimm, Olmsted Township  
 Mattie Jean Grooms, Columbus  
 Cheryl Wendy Gross, University Heights  
 Lisa Ann Groves, Fostoria  
 Kelly Michelle Grubb, Plain City  
 Jeanne Marie Hall, Dorset  
 Laurie Lynn Halmi, Milford  
 Jennifer Margaret Hamrock, Worthington  
 Jonda C. Hapner, Hillsboro  
 Rachel Ann Hart, Shaker Heights  
 Russell John Harvey,  
     Sault Sainte Marie, MI  
 Melinda Ann Haskins, Cincinnati  
 Kelli Danielle Hatfield, Hilliard  
 Victoria Ann Hausfeld, Dayton  
 Aaron Alan Haven, Wooster  
 Ann Elizabeth Haynes, Fairborn  
 Michelle Ann Heider, Columbus  
 Gregory Clyde Henderson,  
     New Philadelphia  
 Janet Marie Hendricks, Columbus  
 Kurt Sheldon Henne, Napoleon  
 Mark Aaron Hiatt, Marietta  
 Dawn Marie Higgins, Brookfield  
 Beth Maria Himmel, Sylvania  
 Steven Gregory Hobbs, Columbus  
 Sophia Valentina Holliger, Warren  
 Deborah Houser, Upper Arlington  
 David Wayne Housman, Loveland  
 David Marshall Huff, Worthington  
 Kurt Allen Huntsinger,  
     Downers Grove, IL  
 Andrea Hurtado-Mejia, Worthington  
 Johan Jay Isaly, Marion  
 William J. Jingo, Canton  
 Kimberly Ann Jirsa, Maple Heights  
 William Rufus Johnson, Lima  
 Joanne Sue Sicheri Jones, Reynoldsburg  
 Tammy Lynn Jones, Dublin  
 Verna Marie Jones, Columbus  
 Ami Ann Kann, Beachwood  
 Katrina Marie Kehr, Toledo  
 Nicole Linda Kelsey, Dayton  
 Marianne Elisabeth Kettman, Hamilton  
 Edward Vincent Kiger, Bogata, Colombia  
 James Philip Kimball, Wood Ridge, NJ  
 Lynn Marie Kinney, Columbus  
 Mary MJ Kirchner, Westlake  
 Janice Lynn Klam, Cuyahoga Falls  
 Daniel John Kremchek, Cincinnati  
 Elizabeth Ann Krieger, Worthington  
 Gary Duane Lampkin, Columbus  
 Kimberly Diane Larson, Columbus  
 Stephen Martin Lasko, Newton Falls  
 Bryan Andrew Lee, La Rue  
 Mary Judith Leugers, Cincinnati  
 Diane Licklider, Columbus  
 Heidi Sue Limbacher, Strasburg  
 Susan Elaine Long, Chillicothe  
 Leigh Anne Lopez, Upper Arlington  
 Adam Wade Loux, Columbus  
 Robin Lean Lowry, Dayton  
 Leslie Jennifer Lowy, Lyndhurst  
 Helen Cecilia Mackin-Prestigomo,  
     Maple Heights  
 Lori Ann Mager, Toledo  
 Jill Marie Mahlie, Wintersville  
 Linda Marie Malloy, Rocky River  
 Kristen Elizabeth Manos, Ashland  
 Linda Carolyn Manos, Cleveland  
 Philip Stephen Mara, Jr., Columbus  
 Patricia Florence Marsalek, Bay Village  
 Diana Lynn Martin, Westerville  
 Maria Titika Matheos, Akron  
 Kerry Francis McCafferty, North Olmsted  
 Kelley Anita McClendon, Columbus  
 Amy Marie McCollister, Lucas  
 Steven Joseph McCorkle-Reed, Columbus  
 Manuel George McDonald, Brecksville  
 Colleen Ann McFee, Findlay  
 Michael Thomas McGuinness,  
     Reynoldsburg  
 Megan Ann McMurray, Toledo  
 Gary Edward McNamara, Columbus  
 Danielle Patricia McSurdy, Springfield  
 Michael John McSweeney, Westlake  
 Diane Lynn Mealey, Chagrin Falls  
 Jeffery Lee Michael, West Carrollton  
 Mark Allen Miller, Chagrin Falls  
 James Fitzgerald Millikin, Hamilton  
 John Robert Mion, Potomac, MD  
 Margaret M. Mohler, Medina  
 Annette Marie Moody, Marietta  
 Debra G. Moritz, Maumee  
 Julianne Marie Mullen, Lima  
 Alicia Kay Murphy, Ironton  
 Dorothy Ann Murray, West Jefferson  
 Lawrence Christopher Musarra,  
     Moreland Hills  
 Thomas Edward Mutti, Mansfield  
 Elizabeth A. Myers, Lorain  
 Eric Gray Myers, Akron  
 Mark Thomas Myers, Westerville  
 Thomas Francis Naughton,  
     Great Falls, VA  
 John P. Nelson, McKeesport, PA  
 Judit Nemeth, Budapest, Hungary  
 Rebecca Louise Nice, Columbus  
 Kammy Sue Nierscher, Columbus Grove  
 Janine Michel Nolder, Sandusky  
 Michael James O'Connor, Columbus  
 Diane Lynn Olinger, West Lafayette  
 Lauri Anne Olsen, Dillsburg, PA  
 Neal David Opalka, Warren  
 Michael Anthony Ortega, Solon  
 Gabriel A. Ortiz, Cleveland  
 Elizabeth Ann Pack, Columbus  
 Ronald James Packard, Jr., Baltimore  
 George Joseph Paesano, Jr., Columbus  
 Sophia Georgia Panagis, Wintersville  
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 Julia Anne Paxton, Athens  
 April C.E. Payton, Des Moines, IA  
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 Geniene Marie Pernotto, Columbus  
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 Eric Raymond Peterson, Grafton  
 William Karl Pierce, Newark  
 Lisa Ann Pillow, Akron  
 Lisa Ann Pinto, Strongsville  
 Diane Charyl Poehlman, Cincinnati  
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 Michael Joseph Polisenio, Columbus  
 Linda Kay Pope, Dublin  
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 Donna Ruth Popovich, North Ridgeville  
 Timothy Bernard Porter, Chagrin Falls  
 Michael Kenneth Provenza, Lorain  
 Gailanna Garland Purdin, Russellville  
 Suzanne Elizabeth Quattro, Rocky River  
 Michael Joseph Quinn,  
     Goldens Bridge, NY  
 Harry Joseph Ravenel III, Trenton, NJ  
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 Paul Michael Reali, Fairview Park  
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 Charles William Ress, Jr., Columbus  
 Steffany Michelle Ringenberg, Columbus  
 Kevin Patrick Robbins, Columbus  
 Mark Joseph Robinson, Columbus  
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 Chalce Arthur Rolsten, Dayton  
 Brenda Lee Roodvoets, Westerville  
 Douglas Raymond Roughton, Defiance  
 Elizabeth Ann Roycraft, Mansfield  
 Heather Rachelle Ruland, Columbus  
 Michael Fredrick Rutherford, Sarahsville  
 Mark Andrew Sagan, Columbus  
 Rosemary Ross Santillo, Youngstown  
 Carol Elizabeth Savage, Upper Arlington  
 Brian Lee Schleppe, Groveport  
 David Allen Schrader, Brunswick  
 Mary Patricia Schuneman, Herndon, VA  
 Lori Lynn Schwendeman, Lancaster  
 Paul David Seaman, Dayton  
 Tad Anthony Semons, Columbus  
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 Allison Kaye Sharer, Groveport  
 Barry Glen Sheets, Gallipolis  
 Steven Gary Shoemaker, Mogadore  
 Pamela Sloan Shumate, Jackson  
 Stephanie Marcia Siegel, Monroe, MI  
 Marc Bennett Singer, Cleveland  
 David Frederick Slates, North Canton  
 Christiëne Leigh Smith, Medina  
 Leonard William Smith, Grafton  
 Richard Scott Smith, Sylvania  
 Timothy Charles Snyder, Massillon  
 Kathleen Gail Sokol, Cleveland  
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 Kristen Elizabeth Stagg, Columbus  
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 Robert Vernon Stamper, Upper Arlington  
 Jasna Stankov, Mansfield  
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 Steven Ernst Stivers, Ripley

Martha Ellen Stowell, Portsmouth  
 John Marshall Stretch, Hamilton  
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 Eileen Teevin, Westerville  
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 Tarri Jill Thomas, Hamilton  
 James Matthew Troth, Bellefontaine  
 Barbara Ellen Tully, Circleville  
 Bridget Irene Tyznik, Marble Cliff  
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 Sonya Arlene Veloff, Westerville  
 Michael Anthony Villane,  
 Long Branch, NJ  
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 Jay Harry Wagner, Findlay  
 Joseph Perry Wagner, Englewood  
 Kathy Sue Ward, Kettering  
 Carmen Elyse Watts, Garfield Heights  
 Barbara Lynn Wayman, Mayfield Heights  
 Curtis Wade Weatherbee, Monclova  
 Linda Ann Webber, Lorain  
 Harold H. Weber, Jr., Greenport, NY  
 David Joseph Weisgerber, Lima  
 Timothy Thomas Weller, Whitehall  
 Roderic Lamont Wheeler, East Cleveland  
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 Joanne Louise Willense, Kettering  
 Bradford Rex Wilson, Columbus  
 Shawn Michael Winterich,  
 Cleveland Heights  
 Jennifer Ann Wittenmeier, Pickerington  
 Meyer William Wolf, Lyndhurst  
 Tamara Lee Wood, Troy  
 Steven Andrew Worth, Pittsburgh, PA  
 Heather Lee Wright, Marion  
 Tammy Lou Ann Wurthmann, Mansfield  
 Wendy Kay Wyss, Kidron  
 Philip Lee Yetzer, Columbus  
 Tracy Ryan Yoesting, Bellefontaine  
 Dawn Elisabeth Young, Toledo  
 Matthew Robert Young, Centerville  
 Randi Lynn Young, Worthington  
 Christine Marie Youngs, Galloway  
 Julie Marie Zabik, Warren  
 Gregory Zackeroff, Warren  
 David Anthony Zele, Euclid  
 Cyril Michael Zibrik, Youngstown  
 Brad Howard Zimmerman, Westerville  
 Kimberly Renee Zimmerman, St. Paris

## Bachelor of Science

Beth Ellen Albrecht, Loveland  
 Daniel Van Alexander, Napoleon  
 Suzanna Christine Barth, Columbus  
 Robert Becerra, San Antonio, TX  
 Bruce Alan Benzing, Mansfield  
 Sanjay Kris Bhatt, Columbus  
 Stephen Robert Bilsbury, Dublin  
 Elizabeth Jane Bissett, New Philadelphia  
 Thomas Keith Boger, Massillon  
 Edward Borowski, Northampton, MA  
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 Michael Andrew Coates, Beaver Creek  
 James Lewis Coon, Oxford  
 Stephen Lee Crites, Jr., Alliance  
 Michael Joseph Cronley, Columbus  
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 Paul Michael Davis, Columbus  
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 John Merrit Ernst, Cincinnati  
 Richard Daniel Evans, Randolph, NJ  
 Erik Anthony Fisher, Chagrin Falls  
 Calandra Diane Frysinger, Van Wert  
 Gary Thomas Garnet II, Cortland  
 Jennifer Gerard, London  
 Curtis J. Goodnight, Cecil, PA  
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 Douglas Edward Hammon, Westlake  
 Andrew Jay Higgins, Mt. Sterling  
 Nancy Eleanor Hill, Columbus  
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 Neal Edward Johnson, Westerville  
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 Rhea Michelle Khavari, Columbus  
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 Lehi Maña Lebert, Columbus  
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 Patrick Dominic Losacco, Columbus  
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 Melanie Sue McConaughy, Woodsfield  
 Marianne McDermott, Uniontown  
 Steven Bradley Mick, Worthington  
 Tillmon Miller, Sandusky  
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 Bradley Lawrence Mossbarger, Lucasville  
 Douglas Marion Mox, St. Clairsville  
 William Howard Musolf, Medina  
 Philip Alfred Napoli, Lorain  
 Todd Matthew Owlett, Milford  
 Benjamin Edward Patterson, Dublin  
 Timothy David Poland, Columbus  
 Michael Paul Salvino, Jr., Leetonia  
 Michele Louise Selig, Canton  
 Geoffrey Charles Shearer, Toledo  
 Cynthia Ann Shelton, Wheelersburg  
 Christopher David Snyder,  
 New Haven, CT  
 Kathleen Supelak, Rocky River  
 James Fritzen Taylor, Upper Arlington  
 Michael Charles Taylor, Port Clinton  
 Randall Stephen Thomas, Stillwater, NY  
 Duane Eliot Trabits, Avonmore, PA  
 Karen Sue Wenzinger, New Bavaria  
 Richard Dane Wright, Groveport  
 Guy Edward Zuelzke, Fostoria

## Certificate of Study in Latin American Studies

Connie Lynn Byler, Middlefield

## School of Journalism

### Bachelor of Arts in Journalism

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 Kelly Jo Barnett, West Jefferson  
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 Christopher John Binder, Orient  
 Karla Westendorf Boggs, Augusta, GA  
 Stacey Michelle Boley, Akron  
 Kevin Mark Bonnay, Richmond Heights  
 Brian Paul Borgert, Dayton  
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 Jay Randall Brown, Medina  
 Karen Diane Brown, South Euclid  
 Crystal Denise Burnett, Akron  
 Chris Koreen Carey, Marion  
 Kimberly Gayle Carson, Gratiot  
 Cathleen Marie Carter, Cleveland  
 Ellen Marion Caruso, Rocky River  
 Sarah Lenore Christian, Chagrin Falls  
 Kari Michelle Cline, Strongsville  
 Kimberley Lane Cole, Wadsworth  
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 Kurtis Dale Deneen, Clarkston, MI  
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 J. Kevin Douglas, Thornville  
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 Lee Ellen Evans, Springfield  
 Lisa Marie Federico, Strongsville  
 Bruce William Fehlman, Wellington  
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 Dana Lynn Foor, North Ridgeville  
 Gretchen Elaine Fri, Medina  
 Craig Alan Friedman, Toledo  
 Linnea Rachelle Gayheart, Shelby  
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 Alexander Ward George, Long Branch, NJ  
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 Mary Elizabeth Griffin, Columbus  
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 Teresa Ann Hackathorn, Norwalk  
 Robert Shaw Hackley, Poland  
 James Eric Hagely, Upper Arlington  
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 Carol Ann Heavey, Columbus  
 Thomas Jerome Higgins, Amherst  
 Robert D. Icsman, Sandusky  
 Neal Seth Intrater, Toledo  
 David Allen Jacobs, Cincinnati  
 James Alan Jacobs, Columbus  
 J. Carice Jameson, Holmesville  
 Pamela Renee Jones, Columbus  
 Michele Marie Kanche, Columbus  
 Rosan Elizabeth Kelley, Defiance

R. Nicholas Kellis, Lima  
 Bryant William King, Springfield  
 Patricia Marie Kinneer, Columbus  
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 Kimberly Ann Krause, Allison Park, PA  
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 Barbara Lynne Levine, Bexley  
 Mary Margaret Lilko, Youngstown  
 Paul David Lindsay, Maumee  
 Stacey Leigh Lowman, Alliance  
 Theresa E. Lux, Columbus  
 Valerie Susan Mader, Silver Lake Village  
 Kristen Suzanne Martz, Toledo  
 Thomas John Massar, Columbus  
 Denise Renée Mast, Canton  
 Richard Thomas McAninch, Columbus  
 Catherine Marie McClorey, Cincinnati  
 Vera Joetta McCruter, Mansfield  
 Rodney Keith McDaniel, West Carrollton  
 Cardinal Patrick McGivern, Boardman  
 Kyle Patrick McQuaid, Strongsville  
 Stephen Robert Mears, Sandusky  
 Michael Anthony Melaragno, Grandview  
 Meredith Ann Melragon, Upper Arlington  
 Valerie Metsika, Columbus  
 Debra Leigh Miller, Mayfield Heights  
 Traci Alison Miller, Reynoldsburg  
 Kathleen Rowe Montag, Westerville  
 Scott Clark Morey, Warren  
 James Arthur Morrison, Parma  
 Andrea Maria Muto, Akron  
 Jennifer Lynn Nelson, Cincinnati  
 Patti Anne Nickerson, Cape Porpoise, ME  
 Nadeane Elizabeth Nugent, Cincinnati  
 Eric Robert Oberman, Bexley  
 Michele Lynn Ohl, Mansfield  
 William McCoy Outlaw, Cold Spring, NY  
 Michelle Marie Pryor, Tiffin  
 Nicole Elizabeth Quelette, Galena  
 Thomas James Ream, Rocky River  
 Stephanie Lynn Reiber, North Canton  
 Carol Jane Rice Lewis, Columbus  
 Mary Beth Richardson, North Olmsted  
 Tracey Marie Riley, Zanesville  
 Marinés Rivera, Columbus  
 Beth Ellen Ross, Beachwood  
 Melissa Louise Rossi, Akron  
 Jennifer Lynn Rusnak, Mayfield Heights  
 Margaret Mary Rutledge, Cincinnati  
 Timothy Joseph Ryan, Bowling Green  
 Holly Elizabeth Sauer, Circleville  
 Jeffrey Scott Schleifer, Pepper Pike  
 Sandy Jonelle Schweitzer, Baltimore  
 Daniel Eric Scott, Mansfield  
 Todd Allen Sedmak, Geneva  
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 Roderick L. Sherrell, Dover  
 Laurie Marie Sietatycki, Brunswick  
 Kristin Michelle Sindiong, Cincinnati  
 Joan Elizabeth Slattery, Reynoldsburg  
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 Rebecca Crandall Snyder, Centerville  
 Mark David Somerson, Upper Arlington  
 Susan Jane Southard, West Liberty  
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 James Douglas Stevenson, Marion  
 Steven Robert Stockdale, Sandusky

Timothy Charles Straker, Zanesville  
 Stephen Theodore Tompos, Whitehall  
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 Kristin Marie Wade, Newark  
 Tracy Lynn Walcutt, Columbus  
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 Lisa Anne Widunas, Findlay  
 Michael Stephen Willins, Cincinnati  
 Jill Ann Wolfram, Worthington  
 Wendy Erin Worth, Columbus  
 Joan Lynne Wright, Xenia  
 Jeffrey David Wuenker, Cincinnati  
 Marc Anthony Zipfel, Denver, CO

## College of Agriculture

Dean: Frederick E. Hutchinson

## Bachelor of Science in Agriculture

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 Javelyn Renee Baylis, Cleveland  
 Melanie Lee Bene, Mt. Vernon  
 Paul Franklin Best, North Canton  
 Mark Stephen Bichsel, New Philadelphia  
 Benjamin Paul Black, West Milton  
 Jessie Lynn Born, Amherst  
 Robert Arthur Bouic, Ostrander  
 Dana Brezny, State College, PA  
 Rebecca Joan Briggs, Columbus  
 Deborah Lynn Brown, Dublin  
 Michael Alton Bullock, Circleville  
 Heather Elizabeth Burrell, Fresno  
 Bruce Edward Burton, Huber Heights  
 Connie Lynn Byler, Middlefield  
 Robert Francis Carle, Circleville  
 Kevin Scott Carter, Gallipolis  
 Janet Leigh Cassidy, Massillon  
 Paige Lance Chandler, Galion  
 Laura Jean Child, Columbus  
 Christopher William Cole, Twinsburg  
 Russell Thomas Colman, Williamsfield  
 Douglas William Conger, Lima  
 Gregory Allen Conrad, New Holland  
 Charles Matthew Dahse, Amesville  
 Jeffrey Shinault Day, Columbus  
 James Michael DelPrince, Ashatubula  
 Debora Lynn Demmitt, Troy  
 Keith Richard Dirksen, Kenton  
 Kevin John Doseck, Jackson Center  
 Darin Lee Draeger, Lindsey  
 John Edmund Duckworth, Marietta  
 David Chris Duvall, Hubbard  
 Carolyn Sue Emmons, Fayette  
 Michael David Engelhardt, Columbus  
 Maureen Ann Fagan, Dublin  
 Andrew Allan Farley, Jackson  
 Michael James Fennig, Coldwater  
 Daniel Stephen Franek, Chagrin Falls  
 Sandra Ann Fravel, Springfield  
 Julie Kathleen Friesen, Cincinnati  
 Rebecca Stirling Gardner, Gates Mills  
 Michael Louis Gastier, Milan  
 Marc Thomas Gedert, Curtice  
 Curt Allen Geron, Springfield  
 Brant Eric Giere, Brecksville  
 Joan Ellen Gish, North Lawrence  
 Deborah Jean Glauer, Loudonville  
 Michael Jones Guest, Kent  
 Kristin Basel Guthrie, Marion  
 Kirsten Handke, Columbus  
 Catherine Ann Hartman, Parma  
 Darcy Ann Hartman, Berlin Heights  
 Jill Renée Hayes, Worthington  
 Willem Edward Henke, Brunswick  
 Timothy David Hennessy, Bellefontaine  
 David Russell Hermes, Tipp City  
 Charles Stephen Hess, Cincinnati  
 Stuart Jay Hess, Urbana  
 James Allen Hill, Weston  
 Julie Kay Hoover, Shelby  
 Robert Hosteller, Columbus  
 Mark Edward House, Camden  
 Susan Jennifer Jenkins, Wooster  
 Bart Edwin Johnson, Delaware  
 Robert N. Jones, Huron  
 Tonia Marie Jones, Lorain  
 Larry Alan Keister, Springfield  
 Jay Allen Kill, St. Marys  
 Teri Ann Kraus, Medina  
 Dean John Krukemyer, Pemberville  
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 Kimber Laurie MacKenzie, Columbus  
 William Douglas Mainzer, Norwalk  
 Martin Marks, Columbus  
 Harold Jeffrey Martin, Millersport  
 Keith D. McGoldrick, Hamilton  
 Gary Bryan McNeal, Springfield  
 Brian David Miller, Findlay  
 Dale Edward Minyo, Cumberland  
 James Carson Mitchell, Plain City  
 Steven Samuel Moore, Leesburg  
 William Thomas Moorhead, Cincinnati  
 John Christopher Moses, Columbus  
 Mohamad Ahmad Mourad, Columbus  
 Robert Wayne Mulligan, Jr., Little Hocking  
 Joel William Pankowski, Ashtabula  
 Kenneth Neil Parrott, Lexington  
 Todd Lawrence Pennington, Wauseon  
 Ann Elizabeth Petersen, Chesterland  
 Brian Alan Pollock, Columbus  
 Kristin Ann Ramseyer, Millersburg  
 Jett Alan Regula, Bellefontaine  
 Jeffrey Albert Reichert, Goshen  
 Todd R. Rice, Columbus  
 Kara Lee Robertson, Trenton  
 Dana Lynn Schissel, Cincinnati  
 Mary Rose Schornak, Jamestown  
 Nancy Yvonne Secrest, Caldwell  
 Kimberly Ann Skrabec, Medina  
 Zrinka Katherine Slat, Columbus  
 Thomas John Sloma, Jr., Sandusky  
 Randy Jay Somerville, Columbus  
 Scott Vincent Spasiano, Westerville  
 Laura Beth Stiles, Marysville  
 Lora Jean Stike, Newbury  
 Joanne Elizabeth Stokes, Jefferson  
 Todd Edward Stoll, Marshallville  
 Richard Bradlee Swank, Lewisburg

Dwight Raymond Tingley, Mt. Gilead  
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 New Philadelphia  
 Jeffrey L. Volkert, Hicksville  
 Daniel Dale Walker, Lynchburg  
 Kirk Georges Walker, New Vienna  
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 Barry Wallace Ward, Urbana  
 Edward Brian Warner, Columbus  
 Diane Sue Warns, Perrysburg  
 Scott McClelland Weaver, Cleveland  
 Mary Elizabeth Welling,  
 New Philadelphia  
 Gregory Alan Wells, Marysville  
 Evelyn Price Williams, Hilliard  
 Pamela Marie Williams, Shaker Heights  
 William Walter Williams, Sheffield  
 Robert Chris Williamson, Defiance  
 Michael Wayne Wolfe, Baltimore  
 David James Wornstaff, Ashley  
 Gary Lee Wortman, Zanesville  
 Richard Mark Zehentbauer, Hanoverton

### **Bachelor of Science in Food Science**

Tracey LeeAnne Britton, Columbus  
 Anahita Keyhani, Usetabad, Tehran, Iran  
 Emily Rose Kiracofe, Warren  
 Eric Carl Perkins, Dayton  
 Linnea Katherine Stromberg, Beavercreek

### **Bachelor of Science in Nutrition**

John Kevin Bailey, Marysville  
 Mark Anthony Russell, West Jefferson

## **School of Natural Resources**

### **Bachelor of Science in Natural Resources**

Troy Alan Abram, Columbus  
 Brenda Aileen Adams, Toledo  
 Steven Edward Ahlbeck, Columbus  
 Kevin Charles Assenheimer, Bucyrus  
 Juliet Wyleen Ballinger, Cincinnati  
 John Farrell Bamman, Sylvania  
 Steven Christopher Barry, Lima  
 Craig Dean Brechbuhler, Canton  
 Debra S. Britton, Columbus  
 Jeffrey Russell Bryden, Kipton  
 Martin Patrick Cantwell, Columbus  
 Timothy James Cooper, Columbus  
 Patricia Ann DeGraff, Pickerington  
 Margaret Dill, Wickliffe  
 Denis Michael Dooley, Cincinnati  
 Kendra Sue Eberly, Cleveland Heights  
 Laurie Ann Gallagher, Columbus  
 Matthew John Goodwin,  
 New Philadelphia  
 Allen Steven Grasa, Lorain  
 Lucinda Gay Harper, Aiken, SC  
 Brian Hugh Harroff, Gahanna  
 Joseph John Hassman, Hillsboro

Cynthia Lee Hawkins, Medina  
 Ronald Allen Joseph, Columbia Station  
 Glenn Daniel Klingler, Lima  
 Kenneth Joseph Kulka, Mansfield  
 Allen Eugene Lea, Ashley  
 William Earle Mack, Collins  
 Craig Thomas Mallison, Bellbrook  
 Douglas Michael May, Copley  
 Craig Scott McWherter, Delaware  
 Andrew J. Montoney, Orient  
 Dennis Lee Morehart, Canal Winchester  
 Scott Traylor Morris, Worthington  
 Jeffrey Mowka, Toledo  
 Matthew Lee Notziger, Wauseon  
 Yetty Marie Peiffer, Greenville  
 Elizabeth Margaret Petree, Columbus  
 Allen Brant Rowland, Jackson  
 Michael Joseph Schurman, Dayton  
 Jefferey Lynn Shields, Covington  
 Donald William Simpson, Cincinnati  
 Carol Ann Smith, Upper Arlington  
 David Allen Smith, Fostoria  
 Michael Richard Thomas, Brecksville  
 Christopher Waller, Brunswick  
 Dale Wayne Warner II, Wooster  
 Stephanie Jo Williams, Elyria  
 Leslie Ann Winner, Coldwater  
 Dave John Zacharias, West Salem

## **Agricultural Technical Institute—Wooster**

### **Associate in Applied Science**

Bruce William Basinger, Dalton  
 Stephen Stanley Beer, Mansfield  
 Michael G. Blau, Euclid  
 James Leroy Borton, West Salem  
 Michael Dean Bowman, Creston  
 Scott Anthony Briggs, East Sparta  
 Kari Ruth Butts, Coshocton  
 Jeffrey Robert Carson, Rocky River  
 Gary Howard Chambers, Graytown  
 Therese Ann Chapman, Macedonia  
 James Harding Christ, Avon Lake  
 Robert Norman Cowie, Jr., North Canton  
 Gerald W. Cox, Hubbard  
 Christopher Lee Davis, Medina  
 William Michael Davis, Akron  
 Timothy James Dunn, Zanesville  
 Scott Alan Eberly, Orrville  
 Loretta L. Edwards, Sidney  
 Craig Mitchell Felton, North Royalton  
 Charles Christopher Finton,  
 New Philadelphia  
 David Lee Frederick, Milan  
 Eric William Frega, Valley City  
 Douglas Gerald Goodman, Cardington  
 Micah Timothy Hartong, Carrollton  
 Frederick Nicholas Hergert IV,  
 Ringold, PA  
 Matt Ryan Hewitt, Apple Creek  
 Michael Gordon Hodgins, Mentor  
 Nancy A. Hudson, Madison  
 Carolyn Marie Immel, Burbank  
 Troy Scott Ingle, Fletcher

Michael Lee James, Vienna  
 Barbara Jean Jeffery, Munhall, PA  
 Shelby Ann Kell, Cleveland  
 Dennis Mark Kover, Warren  
 Amy Jo Leskey, Glenmont  
 Matthew James Lesko, Salem  
 Ann Denise Libben, Port Clinton  
 Howard Chester Loel III, Chillicothe  
 David Edwin Lytle, Litchfield  
 Robert Bryan McMahan, Richwood  
 Henry Albert Michael, Jr., Diamond  
 John Wallace Miller, Jr., Dover  
 Michael Ryan Miller, Rittman  
 Pamela Sue Mitchell, Zanesville  
 Jeffrey Earl Moser, Wooster  
 Heather Ann Moy, Toledo  
 Stacey Lynne Moyers, Shreve  
 Shannon Marie Mullins, Munroe Falls  
 Dean Edward Myers, Carey  
 Mark Douglas Niemczyk, Apple Creek  
 Donna Marie Noyes, Wooster  
 Alice Elizabeth Orchard, Danville  
 Scott Micheal Pfeiffer, Ashville  
 Christine Leigh Probasco, Lancaster  
 Randy Ray Raber, New Philadelphia  
 Jeffrey Robert Rak, Strongsville  
 Elizabeth Elaine Rick, East Canton  
 Scott Thomas Ripley, New Philadelphia  
 Sheila Marie Riser, Barnesville  
 James Britton Roberts, Lyndhurst  
 Albert Matthew Roth, Brimfield  
 Kenneth Raymond Schuck, Ashland  
 Brian Allen Schwartz, St. Mary's  
 Kenneth Alan Schwarz, Cincinnati  
 Robert Steven Shircliff, Mogadore  
 Daniel John Smith, Wooster  
 Richard Bradlee Swank, Worthington  
 Elaine Susan Swartz, Salem  
 Jason Andrew Swartz, Prospect  
 Eric Allen Thoren, Racine  
 Curtis Dale Tinney, Orrville  
 Douglas Ernest Vasulka, Parma  
 Charles Paul Wagner, Celina  
 David Lee Wagner, New Bethlehem, PA  
 Ross Kerlin Wagner, Sidney  
 Steven Paul Weaver, Dalton  
 Bruce Allen Wierzbiicki, Northfield  
 Lisa Ann Wiper, Stow  
 James Joseph Woods, Columbus  
 Marie Antonette Zampini, Painesville  
 James Anthony Zubryd, Irwin, PA  
 Michael Ray Zucker, Marion

## **College of Business**

Dean: H. Justin Davidson

### **Bachelor of Science in Business Administration**

Jan Allen Ackley, Zanesville  
 Victoria Lynne Adams, Columbus  
 Sharon Seela Addanki, Columbus  
 James R. Adkins, Columbus  
 Rodney L. Adkins, West Carrollton  
 Michelle A. Agresta, Steubenville  
 Mónica Maria Aguirre, Columbus



Gary Wayne Aliff, Jr., Dublin  
 Randall Walter Alvarez, Marysville  
 Renee Rose Ambrose, Sunbury  
 David L. Anderson, Moreland Hills  
 John Ivan Anderson, Jr.,  
 New Philadelphia  
 Robert L. Anderson, Wilmington  
 Scott Allen Anderson, Marion, IA  
 Charles Edward Armstrong, South Point  
 John D. Austin, Columbus  
 Dale Dyal Baehr, Upper Arlington  
 Richard James Baerwaldt, Findlay  
 Julie Ann Ball, Reynoldsburg  
 Kristen Kay Ballard, Lima  
 Edith Lynn Bargar, Pittsburgh, PA  
 Philip A. Barker, Baltimore  
 Heidi Kathryn Barlow, Cincinnati  
 Daniel J. Barnett, Chagrin Falls  
 Anthony James Barnhart, Springfield  
 Scott William Baugher, Conneaut  
 Tina K. Bavelis, Columbus  
 Kenneth William Baytos, Columbus  
 Amy Rebecca Beam, Wilmington  
 Gene William Beard, Cincinnati  
 John Charles Beck, Marietta  
 Jackie Sue Bedilion, Marietta  
 Pratima Pattathan Bekal, Columbus  
 Eric J. Bell, Upper Arlington  
 Kimberly Ann Bell, Sylvania  
 Christopher John Belpuis, Spring Valley  
 Amy Jo Benkel, Dayton  
 Lori Anne Bennett, Chagrin Falls  
 James Phillip Bentley, Crestline  
 David L. Berkley, Columbus  
 Jeffrey Scott Berlowitz, Rochester, NY  
 Steven Bruce Berman, Cleveland  
 John Richard Beshuk, Pataskala  
 Bradley Curtis Biller, Zanesville  
 Stephen Robert Bing, Maumee  
 Christopher A. Binkley, Ada  
 Donald Alan Birchler, Baltimore, MD  
 Gary Franklin Blackburn, Milford  
 Dawn Marie Blackwell, New Philadelphia  
 Andrew Alan Blank, Columbus  
 John Carrol Blue, West Jefferson  
 Stephen John Boback, Cincinnati  
 Janet M. Bober, Columbus  
 Martin Dean Bober, Cleveland  
 Michael Anthony Bodanza,  
 Newburgh Heights  
 Maria Rose Bodnar, Rocky River  
 Jeffrey Scott Boerner, Massillon  
 Jeffrey James Boothman,  
 Williamsburg, VA  
 David Edward Bowditch, Fairview Park  
 Joseph Tyger Bowers, Columbus  
 Kenneth E. Boyd, Bellville  
 Gregory Scott Boyer, Jackson Center  
 Stephanie Jill Boyer, Columbus  
 Ryan Douglas Braet, Beavercreek  
 Sheryl Lynn Braham, Columbus  
 Lori Renée Brenner, Reynoldsburg  
 Christopher Charles Bresnahan, Powell  
 James Michael Brinker, Greenville  
 Mary Elizabeth Broderick, Tallmadge  
 Daniel G. Bronish, Strongsville  
 Melissa Irene Brooks, East Liverpool  
 Gary Daniel Broughman, Columbus  
 Bradley Joseph Brown, Kettering

Reid T. Brown, Middletown  
 Robert Melvin Brown, Youngstown  
 Nancy Wilson Brownell, Upper Arlington  
 Michael Scott Browning, North Canton  
 David Patrick Brubaker, Greenville  
 Lori Ann Brutchey, Newark  
 John Joseph Bruzzese, Columbus  
 Lawrence Andrew Budd, Columbus  
 Lisa Kathleen Burbick, Salem  
 Keith Alan Burnard, Columbus  
 Brian Scott Burris, Cambridge  
 Michael James Bussard, Reynoldsburg  
 Lisa Ann Butterfield, Scio  
 Brian Ray Butts, Indianapolis, IN  
 Karen Arlene Byerly, Hannibal  
 Deborah Lanea Byrd, Merced, CA  
 Barry L. Callicoat, Mechanicsburg  
 Scott Joseph Calvis, Columbus  
 Joel Evan Cameron, Hillsboro  
 Todd Douglas Cameron, Columbus  
 Robert Michael Cantu, Jr., North Olmsted  
 Lorraine Ann Capozza,  
 North Syracuse, NY  
 Susan Lynn Cappadora, Beachwood  
 John Vincent Carioti, Pickerington  
 Keith Owen Carothers, Worthington  
 Rick Ronald Carpinelli, Richfield  
 Kevin Patrick Casey, Hudson  
 Thomas L. Cecil, Dayton  
 Laurie Lynn Cermak, Gahanna  
 Linda Sue Chaffin, Columbus  
 Luke Joseph Chandler, Cincinnati  
 Jayne Ellen Charman, Perrysville  
 Ngee Jin Choong, Alor Star, Kedah,  
 Malaysia  
 Richard Francisco Chrisman, Gahanna  
 Tamara Elaine Christian, Columbus  
 Michael Francis Cianciolo, Jr.,  
 Highland Heights  
 Daniel Jay Claar, Sandusky  
 Kevin Ernest Cline, Hayesville  
 Mark Wayne Cockley, Mansfield  
 Bryan Eric Cohen, Beachwood  
 Delores Yvonne Colby, Marion  
 Brett K. Cole, Mansfield  
 Kelly Ross Cole, Chesterland  
 Thomas Lee Cole, Wapakoneta  
 Brian Kieth Compton, Columbus  
 Ernest J. Compton, Columbus  
 Suzanne Marie Compton, Columbus  
 Michael P. Connelly, Rocky River  
 Norman Clifton Connor, Columbus  
 Ronald Wesley Constien, Findlay  
 Elizabeth Michelle Cook, Westerville  
 Patricia Joan Cook, Upper Sandusky  
 Adam Laban Cooper, Pepper Pike  
 William John Cooper, Upper Arlington  
 Brian Patrick Corbett, Mansfield  
 Theresa Ann Cordial, Ostrander  
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Connie Ann Mullins, Columbus  
Neda Nassirzadeh, Columbus  
Lisa Christine Petrov, Elyria  
Kimberly Ann Sabec, North Olmsted  
Leigh Ann Sanders, Worthington  
Susan René Webster, Mansfield  
Lisa Ann Zukovs, Lancaster

## **Certificate of Graduate Dental Hygienist**

Mary Roberta Betts, Circleville  
Joyce Ann Buchenic, Youngstown  
Michelle Renae Hicks, Portsmouth  
Elizabeth Marie Karkut, Naples, FL  
Andrea Lynn Moskerintz, Canal Winchester  
Alisa Sael Shapiro, Cincinnati

## **College of Education**

Dean: Donald P. Anderson

## **Bachelor of Science in Education**

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Rebecca Ann Adams, Centerville  
Aggelici A. Agganis, Lancaster

Pamela Jeanne Ahrens, Minster  
 Kaye Dianne Alban, Newark  
 Jacqueline Ann Albanese, Eastlake  
 Rex William Allison, Columbus  
 James Edward Arens, Jr., Lancaster  
 Christopher Joseph Armstrong,  
 Reynoldsburg  
 Sharon Lee Atchison, Columbus  
 Steven Lowell Ayers, Forest  
 William Langan Badger, Genoa  
 Michele Lynn Baird, Shelby  
 Denise Lora Bakenhaster, Columbus  
 Karen Kay Bartlett, Columbus  
 Leslie Jean Bassage, Columbus  
 Minda L. Bassitt, Columbus Grove  
 Kathleen Ann Beatty, West Chester  
 Michele Anne Beccia, Seven Hills  
 Todd Anthony Bell, Middletown  
 Nicole Marie Benway, Mentor  
 Mary Roberta Betts, Circleville  
 Lori Annette Black, Tiffin  
 Marjorie Ann Blackwood, Cambridge  
 Guy M. Blair III, Columbus  
 Robert Louis Bloom, Sunbury  
 John Daniel Boerwinkle II, Lorain  
 Lisa Ann Boggs, Grove City  
 Jeffrey Joseph Bonar, Columbus  
 Teresa Ann Bonaventura, Columbus  
 Carol Suzanne Bova, Grove City  
 Dane Edward Bowen, New Lexington  
 Andrew Burnice Brandi, Zanesville  
 Kristi Kay Bright, Delaware  
 Sonya Michelle Brock, Canton  
 Timothy Richard Brown, Upper Sandusky  
 Julie Lynn Bruah, Newark  
 Dawn Marie Brubach, Munroe Falls  
 Lenae Lynn Bruce, Johnstown  
 John Christopher Brunton, Reynoldsburg  
 Joyce Ann Buchenic, Youngstown  
 Jo Ann Buckingham, Howard  
 Melissa Ann Budding, Columbus  
 Katherine K. Bulach, Norton  
 Jeffrey Scott Burris, Chillicothe  
 Justine N. Burris, Waverly  
 Barbara Ann Bush, Columbus  
 Marcia Lynn Busler, Marion  
 Howard William Calame, Jr., Medina  
 Courtney Suzanne Campbell, Columbus  
 June Kathryn Campbell, Mansfield  
 Marie Wallace Campbell, Pickerington  
 Timothy Tristram Cheeseman, Plain City  
 Kathy Ann Ciminillo, Lima  
 Jeannette Marie Cleaver,  
 South Charleston  
 Tracy Lea Click, Warren  
 Dawn Elizabeth Coats, Hilliard  
 Elise M. Cohen, Youngstown  
 Sarah Jo Cohen, New Philadelphia  
 Linda More Cole, Heath  
 Angela Joyce Conradi, New Bremen  
 Brian Spencer Cook, Westerville  
 Karin Jean Cook, New Washington  
 Paula Marie Cook, Canton  
 Tracie Michele Cook, Mansfield  
 Gary Lee Cooper, Pataskala  
 Chandler Kyle Cox, Bellefontaine  
 Laura Lee Crawford, Beavercreek  
 Linda M. Crouso, Coshocton  
 Todd M. Crow, Wapakoneta

Lisa Gail Cruill, Columbus  
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 Tonya Leigh Dahlen, Lima  
 David L. Daniels, Columbus  
 Dawn Carol Davenport, Myrtle Beach, SC  
 Melanie Anne Davis, Brookville  
 Susan Davison, Columbus  
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 John Edward Dempsey, Youngstown  
 Julie Margaret Deyer, Cincinnati  
 Nancy Sue Dickason, Green Camp  
 Susan Denise Dickerson, Amherst  
 Julie Kay Diebley, Shelby  
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 Carmel, IN  
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 Susan Disbennett Downey, Gahanna  
 Lois Jean Earley, West Lafayette  
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 Paula Jo Ehrle, Springfield  
 Kenneth A. Ehrman, New Washington  
 Beth Ann Eibling, Ada  
 Elizabeth Esther Elpiner, South Euclid  
 Laura Lynne Elsea, Columbus  
 JoLayne Marie Emerich, Oberlin  
 Jennifer Jo Emmons, Marion  
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 Gina Marie Erhart, Ottawa  
 Julia Katherine Essman, Orient  
 Christine Marie Etzkorn, Delphos  
 Suzanne Elizabeth Evans, Granville  
 Barbara Ilene Feit, Wayne, NJ  
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 Nancy Anne Fleming, Delaware  
 Lori Gay Fogle, Hicksville  
 Kathleen Legeia Folsom-Davis, Mansfield  
 Scott Eugene Forney, Forest  
 Kevin Allen Fox, New Holland  
 Jennifer Ann Freeman, Mayfield Heights  
 Sara Lyn Freeman, Caledonia  
 Joann Friend, La Rue  
 Sharon Lynn Frye, Gahanna  
 Darren John Furno, Columbus  
 Ann Lynn Gagermeier, Sidney  
 Leslie Ann Gairing, Wadsworth  
 Kathy Rolene Gaisford, Payne  
 Heidi Boyer Garcia, Carroll  
 Dorothy Ann Gardner, Mt. Vernon  
 Elizabeth Anne Gargiulo, Wilmington, DE  
 Sandrine Eve Geissler, Delaware  
 Krista Sue Gibson, Worthington  
 Pamela Gay Gillespie, Galion  
 Sharon L. Gillis, Westerville  
 Robyn Helene Glickman, Beachwood  
 Jane Ann Glover, Dayton  
 Jane Goedde, Lima  
 Kim Nicole Goldhamer, Beachwood  
 Monica Maria Gomez, Seven Hills  
 Anna Marie Gossard, Kenton  
 Jennifer Marie Gosser, Worthington  
 Rebecca Sue Gottfried, Bucyrus  
 Danielle Janis Gough, Barberton  
 Lorraine Joanna Gowens, Powell

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 Jannette Louise Greene, Clinton  
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 Silvertown, OR  
 Elizabeth Jane Gwin, Shreve  
 Cheryl Ann Haas, Paris  
 Rebecca Lynn Haenel, Willoughby  
 Beth Ann Haffner, Columbus  
 Kimberly Denise Haldeman, Bucyrus  
 Brigitte Ann Hall, Columbus  
 Roberta Wilson Hall, Newark  
 Robin Lee Hall, Plain City  
 Michael Duane Hamilton, Lima  
 Peter Stuart Hammonds, Chagrin Falls  
 Leslie Beth Harlow, Lima  
 Tamara Marie Harper, Columbus  
 Pamela Jo Hart, Springfield  
 Paul Brian Hassell, Columbus  
 Janie K. Heapfey, Whitehall  
 Kelly J. Heatwole, Newark  
 Wendy Jean Hechler, Dublin  
 Amy J. Hehr, Bucyrus  
 Dana Jaye Heisel, New Bloomington  
 Joetta Sue Heldman, Bluffton  
 Margaret Faith Helm, Broadview Heights  
 Tonya Lynn Hennon, Lima  
 James Stephen Hering, Marion  
 Matthew Reed Herr, Mansfield  
 Kimberly Sue Higgins, Gahanna  
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 Daphne Lynn Hill, Dallas, TX  
 Kimberly Lyn Hine, Westerville  
 Paul Arthur Hohibien, Delphos  
 Lorraine Weaver Holliday, Nevada  
 Cynthia Lynn Howland, Columbus  
 Calvin Dennis Huck, Waterford  
 Valerie May Huffman, West Jefferson  
 Tracy Lorraine Hughes, Tiffin  
 Kathryn Jeanine Humbert, Plain City  
 Kristie Lyn Humbert, Fayette  
 Susan Chiarello Hunter, Westerville  
 Lawrence Cooper Hurtubise, Columbus  
 Judith Elaine Jepsen, Canal Winchester  
 Karl David Johnson, Copley  
 William Mark Johnson, Westerville  
 Michael Anthony Johnston, Wapakoneta  
 Anthony James Jones, Cincinnati  
 Patricia Lynnette Jones, Delaware  
 Tari Elizabeth Jones, Columbus  
 Elizabeth Marie Karkut, Naples, FL  
 George William Keeney, Columbus  
 Janice Ann Keller, Findlay  
 Jon P. Keller, Canton  
 Jeffrey C. Kelley, Canton  
 Richard Gregory Kembitzky, Hilliard  
 Jennifer Lynn Kennedy, Upper Sandusky  
 Sharon Lorraine Kessler, Columbus  
 Rebecca Jane Kinkley, Coshocton  
 Andrea Kaye Kirch, Warsaw  
 Cynthia Ann Klosterman, Lima  
 Kimberly Yvonne Knapp, Mansfield  
 Julie Ann Kohler, Lima  
 Karen Louise Kolb, Oxford  
 Lori Ann Kopras, Steubenville  
 Margaret Mary Kriofke, Rowlett, TX  
 Rebecca M. Kummerer, Upper Sandusky  
 Nicolette Kurian, Youngstown  
 Edward Paul Kurt, Castalia  
 Sandra Margaret Lahr, Navarre

Wende Lance, Loudonville  
 Elizabeth Mary Lang, Spring Valley  
 Patricia Dawn Lantz, Bellefontaine  
 Amy Elizabeth Laufersweiler, Dayton  
 Teresa Marie Lay, Belle Center  
 Nancy Layman, Newark  
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 Renee Michelle Leck, Bowling Green  
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 Debra Ann Lehman, Lima  
 Barbara Ann Lehner, Stow  
 Michael James Lehotay, Canton  
 Nancy Ann Leider, Columbus  
 Michelle Eileen Lewis, Stow  
 Jo Ellen M. Lisy, Bay Village  
 Elaine Martin Litzinger, Galena  
 Devonne Dawn Longbrake, Elida  
 Nicolette Marie Lucas, Warren  
 Lisa Annette Luedeker, Findlay  
 Katherine Darding Lumpkins, Marion  
 Veronica Diane Luzio, Columbus  
 Derek Sean MacCreedy, Thornhill,  
 Ontario, Canada  
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 Darren Dan Majory, Sandusky  
 Priscilla A. Mandery, Lima  
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 Jacqueline Ann Marquis, Bucyrus  
 Todd Rabold Marrah, Worthington  
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 Cathy Elaine Mason, Columbus  
 Stephen Arthur Mathias, Columbus  
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 Julie A. Maynard, Leipsic  
 Mary Elizabeth McCarthy, Grove City  
 Karmen Louise McCaslin, Lima  
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 Columbus  
 Jennifer Lynn McCreese, Marion  
 Becky Lynn McConnell, Marion  
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 Lisa Louise McCullough, Kenton  
 Dawn Patrice McDonald, Heath  
 Kathleen Joan McGrath, Ashland  
 Tracy Sue McKee, Upper Sandusky  
 Michelle Lynne McNally, Newark  
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 William Charles Meeker, Jr., Bethel  
 Diane Marie Merkel, Columbus  
 Lori Lynn Meshula, Canfield  
 Gay L. Metz, Powell  
 Patricia Sue Meyer, Columbus  
 Neil Claude Michael, Columbus  
 Marina Ann Milano, Columbus  
 Christina Marie Miles, Gahanna  
 Shelly Rae Miller, Wooster  
 Wendelin Miller, Pataskala  
 Jane Verna Mills, Port Clinton  
 Laura Allison Mills, Port Clinton  
 James Richard Mitchell, Akron  
 Jennifer Ann Mitchell, Canal Winchester  
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 William Douglas Moore, Toledo  
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 Scott Allen Nichols, Carrollton  
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 Amy Lelia Noltemeyer, Columbus  
 Barbara Lee Norton, Wapakoneta  
 Lisa Marie Novak, Willowick  
 Teresa Marie O'Brien, Bryan  
 Michael Charles O'Harra, Worthington  
 Beth Ann Oehler, Marion  
 Jodi Lynn Oehler, Delaware  
 Denise Renee Osborne, Kenton  
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 Treanna Lynn Parsons, Springfield  
 Kimberle Ann Pendergrass, Columbus  
 Miguel Angel Perez, Columbus  
 Kimberly Jo Petersen, Oak Harbor  
 Robert Alexander Petroff, Canton  
 Mary Cleland Pfeiffer, Fredericktown  
 Kimberly Sue Pietsch, East Liverpool  
 Karyn Wesley Pittenger, Shelby  
 Lisa Ann Platfoot, DeGraff  
 Douglas Ray Poage, Portsmouth  
 Karen Ann Poltor, Toledo  
 Christopher Clarence Porter, New Boston  
 Maureen T. Porter, Columbus  
 James Edward Price, Columbus  
 Stephen Washam Pritchett, Jr., Columbus  
 Tracey Lynne Pritts, Columbus  
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 Amy Marie Raicevich, Euclid  
 Ann Louise Ratti, Westerville  
 Lynn Marie Reade, Columbus  
 Robert Carl Reeder, Piqua  
 Laura Lee Reese, Lima  
 Quentin Vernon Reese, Jackson Center  
 Randall David Reese,  
 West Palm Beach, FL  
 James Waltman Reid, Salem, MA  
 Eva Marie Reiff, Marion  
 Wanda Sue Richardson, Ashville  
 Sarah Beth Riegel, Columbus  
 Leah Renee Riehm, Wadsworth  
 Tamara Jo Roades, Hillsboro  
 Connie Sue Robbins, Lima  
 Cassandra Diane Robenalt, Van Wert  
 Amy Elizabeth Robison, Worthington  
 Patrick Milo Roetzel, Akron  
 Martha Rosario Rojas, La Paz, Bolivia  
 Elizabeth Ann Rowland, Worthington  
 Rebecca Christine Ruck, Lima  
 Holly Lowery Ruhlén, Kenton  
 Rachel Jo Russell, London  
 Joyce Lynn Salisbury, Bluffton  
 Patricia Helen Sanford, Johnstown, NY  
 Joseph Timothy Santa-Emma,  
 Upper Arlington  
 Patricia A. Sapp, Reynoldsburg  
 Jodi Lee Saunders, Parma  
 Theresa Anne Sauter, New Albany  
 Frederick William Schenk, Lima  
 Kay Marie Schmitmeyer, Columbus  
 Judi Diane Schmucker, Massillon

Janden Elizabeth Schoeff, Wapakoneta  
 Clare Anne Schortgen, Ottawa  
 Debbie Ann Schrader, Plymouth  
 Linda Kay Mast Schulze, Bloomville  
 Nikki Jon Schumaker, Lima  
 Louis Anthony Serapiglia, Middlebranch  
 Donald Eugene Seymour, Columbus  
 Cary Lee Sfikas, Pittsburgh, PA  
 Alisa Sael Shapiro, Cincinnati  
 Nancy Lynn Shapiro, Canton  
 Bryan Edward Shirey, Willard  
 Robert James Shirley, Mansfield  
 Paula Rae Sims, Englewood  
 Mark Gary Slater, Westerville  
 Michelle Gerise Slavik, St. Clairsville  
 Chris Collin Smith, Bay Village  
 Steven Alan Smith, Lima  
 Charles Chris Spielman, Massillon  
 Thomas Gregory Stadler, Shelby  
 Pamela Jean Staffen, Westerville  
 Carolyn Mae Stallings, Marysville  
 Leanne Marie Stang, Findlay  
 Helen Stanich, Columbus  
 Janet Allison Steinke, Wapakoneta  
 R. Scott Stevens, Reynoldsburg  
 Shelley Lee Stewart, Gahanna  
 Ginger Marie Stover, Harrod  
 Coleen Ann Strach, Silver Lake  
 Melissa Kay Stucke, Burkettsville  
 Holly Lynn Swickard, Richmond  
 Rebecca Burcham Swickard, Johnstown  
 Shalu Tandon, Marion  
 Susan Sheridan Taylor, Columbus  
 Suzanne Lynn Terry, Urbana  
 Joan R. Thomas, Lima  
 Linda Ellen Thomas, Greenville  
 Nerys W. Thomas, Columbus  
 Lora Elizabeth Thompson, Columbus  
 Kevin Keith Topping, Ashville  
 Edith Melvina Towns, Columbus  
 Kerry Ann Tracy, Akron  
 Anthony Louis Treboni, Columbus  
 Melanie Riley Trombetti, Columbus  
 Cheryl Renee Troyer, Plain City  
 Shelly Anne Ulmer, Winnipeg, Alberta,  
 Canada  
 Maria Lynn Vaccarella, Columbus  
 Angela Marie Van Horn, Reynoldsburg  
 David Anthony Van Horn, Montvale, NJ  
 David Christopher Warner, Lima  
 Margaret J. Mayer Washington, Mansfield  
 William Scott Wasserman, Mechanicsburg  
 Leigh Ann Watercutter, Heath  
 Stacey Kay Waters, South Solon  
 Beth Ann Weeks, Pleasant Hill  
 Jill Suzanne Weiner, Northfield  
 Jeffrey Mitchell Weiss, Cleveland Heights  
 Linda Young Wells, Coshocton  
 Amy Beth Wesenberg, Port Charlotte, FL  
 Renee Virginia West, Columbus  
 Pamela Michelle Wharton, Mansfield  
 Stacey Ann Whitaker, Eastlake  
 Donna Joan White, Mt. Gilead  
 Lisa Ann White, Kenton  
 Louise Janet Wigney, Charlotte, NC  
 Amy Diana Wilson, Crestline  
 Ann Maria Wilson, East Liverpool  
 Kimberly Sue Wilson, Heath  
 Tricia Ann Wintergerst, North Olmsted

Matthew Burl Wiseman, Mansfield  
 Jill Wisniewski, Westerville  
 Sharon Marie Woeste, Cincinnati  
 Tracey S. Wolcott, Reynoldsburg  
 Patricia Susan Wolfe, Cincinnati  
 Ruth Ellen Mahler Wood, Findlay  
 Craig Thomas Wyckoff, Marion  
 George L. Wyndham, Kenton  
 Michelle Ann Yarsa, Lorain  
 Lisa Kathleen Young, Lancaster  
 Carolyn Marie Zak, Parma  
 Bradley Alan Zech, Sandusky  
 Joanna Sue Zinkon, Fresno

**Bachelor of Art Education and Bachelor of Music Education degrees are offered jointly by the College of the Arts and the College of Education. Candidates are listed under the College of the Arts.**

## College of Engineering

Dean: Donald D. Glower

### Bachelor of Science in Aeronautical and Astronautical Engineering

Steven Carl Asseff, Independence  
 Gregory Alan Bainsoschan, Lexington  
 David Scott Blum, Columbus  
 Darin Lee Boesch, Gahanna  
 James Edward Bruns, Cincinnati  
 Peter Joseph Buchanan, Elyria  
 John David Cherry, Findlay  
 William Joseph Collet, Fostoria  
 Richard Allen Cowley, Medina  
 James Raymond De Bonis, Hubbard  
 Mark Anthony Detelich, Brookfield  
 Carl Dean Dever, Brecksville  
 Timothy Joseph Diersing, Delaware  
 Leonard Paul DiLudovico, Jr., Leetonia  
 Leonard Andrew Dudzinski, Strongsville  
 Ronald Steven Fritsch, Berkey  
 Stefan Eliot Froelich, Shaker Heights  
 Scott Gregory Gramling, Columbus  
 Dennis Mark Grieshop, Yorkshire  
 Scott Randal Gulyas, Austin, TX  
 Bryan Dean Haas, Midland, MI  
 Michael Allen Hall, Toledo  
 David William Herring, Jr., Toledo  
 James Michael Higgins, Pataskala  
 Christopher Todd Hunt, Wooster  
 Karyn Michele Igar, Knoxville, TN  
 James Edward Kamenka, Oregon  
 Eric Edward Kibler, Ravenna  
 Laura Ann Kozel, Columbus  
 Robert Michael Latin, Harrisburg, PA  
 Christopher Douglas Lykins, Fairborn  
 Nicolo Filippo Machi, Solon  
 Timothy Earle Mack, Collins  
 Jeffrey Craig Masters, Columbus  
 John Thomas Meeks, Jr., Columbus  
 Rafic A. Mouzaya, Jaj, Lebanon  
 Kenneth Edward Mulh, Mentor  
 James Andrew Negro, Youngstown  
 Dan Thanh Nguyen, Columbus  
 Andrew Donald Orben, Wadsworth

Martin Edward Piccus, Orange  
 John Alexander Plaga, Parma  
 Thomas North Ramsay, San Diego, CA  
 Randall Brooks Ravis, Amherst  
 Mark J. Ringer, Strongsville  
 Ryan Scott Rorick, Elyria  
 Kent Alexander Ruffing, Bellevue, FL  
 Stephen Paul Singer, St. Clairsville  
 Christopher Thomas Sledz, Sterling Heights, MI  
 James William Smolko, Medina  
 Michael Joseph Stallkamp, Beavercreek  
 Gregory Todd Steinmetz, Cincinnati  
 William Ronald Stevens, New Albany  
 David Eldo Taylor, Toledo  
 Robert John Theiss, North Olmsted  
 Daniela Louisa Trapani, Greensboro, NC  
 Thomas William Uhase, Maple Heights  
 Steven Michael Vehrs, Addison, IL  
 Mercedes A. Vizueta, New York, NY  
 Kathleen Ann Watson, Lorain  
 Jason Fredrick Whitney, Stow  
 Anthony Carl Wiederkehr, Charlton, NY  
 Thomas DeWitt Woodrow, Columbus  
 James Patrick Wooster, Seattle, WA  
 Roger David Wuerefel, Perrysburg  
 Stephen John Zaborski, Westlake  
 Brian O. Zimmerman, Strongsville

### Bachelor of Science in Agricultural Engineering

Leo Branson Conkel, Jr., Reynoldsburg  
 Nazih Wahib Fady, Tripoli, Lebanon  
 Thomas Brian Feldmann, Hamilton  
 Robert George Hentz, Cincinnati  
 James Todd Hughes, Mt. Vernon  
 Russell Byron Krock, Oregon  
 John Harvey Peterson, Washington Court House  
 Rodney James Tornes, Waterford  
 Ronald Thomas Trivisonno, Galena

### Bachelor of Science in Aviation

Jimmy Bitz, Middleburg Heights  
 Christopher Nelson Conn, Avon Lake  
 Robert Lawrence Garvin, Columbus  
 Paul Andrew Kienzie, Kettering  
 Bryan Allen Konst, Bellevue  
 Thomas Alan Linnevers, North Olmsted  
 Terrence Earle Mack, Collins  
 Timothy Alan McLaughlin, Norton  
 David Andrew Meechan, Columbus  
 Andrew Clayton Quiett, Barker, NY

### Bachelor of Science in Ceramic Engineering

Kelly Suzanne Baker, Clinton  
 Ray Virgil Baker, Powhatan Point  
 Michael Patrick Cytacki, Brunswick  
 Stephen Guy Callaher, Powhatan Point  
 Angela Renee Grusd, Bluffton, IN  
 Harjanto Hardjani, Indramayu, Indonesia  
 Alan Lee Harness, Liberty, MO

Albert Carl McDonald, Jr., Columbus  
 Mary Katherine Meyer, Delaware  
 Patrick Francis Rego, Hudson  
 Barry Scott Ringstrom, Fairfield  
 Gerri Darlene Waddell, Gahanna  
 Theodore Allen Wegert, Elmore  
 Julius Alfred Zari, Reynoldsburg

### Bachelor of Science in Chemical Engineering

Mark Wesley Anderson, Circleville  
 Craig Bernard Barry, Elyria  
 Linda Jean Broadbelt, Warren  
 Christopher Joseph Caudell, Peoria, IL  
 Jennifer Elizabeth Craig, Tipp City  
 Katerina Millie Eftimoff, Columbus  
 Lisa Joy Fletcher, Katy, TX  
 Julie Ann Fogarty, Columbus  
 James Andrew Foulk, Pataskala  
 Brian Keith Furlong, Mt. Prospect, IL  
 Barton J. Girdwood, Maumee  
 Johnna Eileen Griffiths, Bedford Heights  
 Keith James Grover, Worthington  
 Laura Anne Hause, Perrysburg  
 Eric John Hrbac, Oregon  
 Walter George Macesch, Parma  
 Stephen Robert Phillips, Tiffin  
 Michael Joseph Pishkula, Mayfield Heights  
 Robert Ryan Proctor, East Liverpool  
 Amy Joyce Reynolds, Dublin  
 Brian Lyn Smith, Barberton  
 Jonathan Martin Vinson, Mentor

### Bachelor of Science in Civil Engineering

Kevin Ray Ackley, Mt. Orab  
 Rick Joseph Amlin, Columbus  
 James Christopher Avery, Clyde  
 Ahlem Ben Othman, Tunis, Tunisia  
 Robert Andrew Bosworth, Pickerington  
 Todd Warren Boyer, Zanesville  
 Brian Sean Casey, Columbus  
 Jeffrey Robert Coffey, Perrysburg  
 Bruce Fraser, Parma  
 Kenneth Charles Graffeo, Solon  
 Adolfo A. Guzman, Columbus  
 Malcolm Scott Hiltz, LaGrange  
 David Charles Hutchman, East Liverpool  
 Brian Michael Kennedy, Youngstown  
 Brian Ross Lamerson, Livonia, MI  
 Patrick Joseph Manger, West Jefferson  
 Barry James Mazik, Westerville  
 Ana Marissa Melendez, Beavercreek  
 Patrick John Mihelick, Stow  
 Alexandra Elaine Millsap, Columbus  
 Theodore Allen Mize, Berlin Heights  
 Michael Sean Mulligan, Utica  
 Thomas Glenn Muraski, Centerville  
 Sean Terence O'Neil, Minneapolis, MN  
 Seng Soon Ong, Penang, Malaysia  
 Todd Anthony Pomorski, Toledo  
 Rodger William Reel, Milan  
 Christopher Joseph Selvaggio, Lima  
 Boris Edward Slogar, Middleburg Heights



Steven Anthony Slusher, Kettering  
Charles William Stein, Luckey  
David Edward Straub, Akron  
James Timothy Watkins, Reynoldsburg  
Douglas Alan Yard, Madison  
Dante Toby Zettler, Kelleys Island

## Bachelor of Science in Computer and Information Science

Gary Ray Arico, Port Clinton  
Leon Daniel Baranovsky, Wyoming  
Richard Leroy Beightler, Jr., Columbus  
Brian Lee Bohman, Yorkshire  
Brian Douglas Calhoun, Sacramento, CA  
Gregory Scott Clark, Dayton  
Gary George Clippinger, Utica  
Brian Edward Combs, Perrysburg  
Michael John Drum, Columbus  
Jon C. Gilliam, Caledonia  
Robert E. Halsey, Wadsworth  
Kevin Michael Hampton, Gardner, KS  
Joseph Charles Hepp, Toledo  
Daniel James Hoffman, Barker, NY  
Michael Eugene Holley, Columbus  
Jay Steven Horvath, Mansfield  
Hindra Irawan, Bogor, Indonesia  
Steven W. Keller, Columbus  
Stephen Lee Kenney, Utica  
Cathy Lynn Korikian, Springfield  
Haig Michael Korikian, Cambridge  
Petar Krugljac, Broadview Heights  
Melinda Kay Lyle, Pickerington  
Christopher Jay Lynn, Warren  
John Timothy McCoy, Columbus  
John Philip Mees, St. Louis, MO  
Michael Edward Mellott, Mansfield  
Michael A. Perkinson, Pensacola, FL  
John Maribay Plaschke, Dayton  
Steven Myers Riley, Westerville  
Bryan Scott Rine, Mt. Vernon  
Patrick Edward Secrist, Lexington  
Michael John Segel, Pepper Pike  
Ali Mustafa Smali, Columbus  
Brian Joseph Smith, Kettering  
Douglas Randall Stidham, Heath  
Sandra Sudarsky, Bogota, Colombia  
Garrett Joseph Suhm, Avon Lake  
Craig Wilson Treisch, North Lawrence  
James Joseph Van Such, Youngstown  
Richard A. von Clausburg, Pickerington  
Michael Patrick Wallace, South Lebanon  
David Bruce White, Worthington  
John Alan Wieronski, Cleveland  
Donald Alan Ziegler, Niles

## Electrical Engineer

Imen Guediche, Sousse, Tunisia

## Bachelor of Science in Electrical Engineering

John Edward Bahr, Chesterland  
Christopher Brent Balough, Mason  
Michael Alan Balsei, Bellaire

Mark Andrew Barnes, Kettering  
Patrick D. Bawer, Columbus  
Gerald Todd Berry, Centerville  
Mark Stephen Boaz, Worthington  
Kurt Randall Brown, Lexington, KY  
Eric Daniel Chandler, Stow  
Joseph Anthony Chifos, Cincinnati  
Alan Wei-Kai Chu, Nashport  
Charles Chadwick Cooper, Lakewood  
Kyle Lynn Croutwater, Canton  
Timothy Lisle Cupp, North Woodbury  
Maria Priscilla Bautista De Leon, Sacramento, CA  
Stephen John Deitzer, West Chester  
Ronald Robert Dull, St. Henry  
Dina Firoozmand, Tehran, Iran  
Albert Leslie Frydland, Cincinnati  
Seng Ler Goh, Muar Johor, Malaysia  
Michael Louis Gomez, Willowick  
Kevin Leslie Gooder, Sidney  
John Edward Grolle, Parma  
Albert Lee Hogan III, Columbus  
Yee-Wing Hsieh, Murrysville, PA  
Gary Allen Jorgensen, Oxford  
Michael McCarrell Keen, Leland, MI  
Stephen Joseph Krak, Westerville  
Raja Laifa, Tunis, Tunisia  
William Timothy Lester, Akron  
Douglas Edward Loyer, Worthington  
Timothy Kear Maahs, Centerville  
Douglas Alan Matthews, Wilmington  
Gavin Balfour Meil, Willowick  
Scott Eugene Moser, Columbus Grove  
Thang Huu Nguyen, Columbus  
Todd Burton Norcross, Republic  
Michael James Opatrny, Bay Village  
Janna Lee Patterson, Vermilion  
Richard William Pomerantz, Cleveland  
George Anthony Pontones, Columbus  
Kyle Edward Riehle, Edgerton  
Ramez Farid Saba, Columbus  
Craig Richard Schwarze, Fairview Park  
Brian Donald Smith, Columbus  
Kris Allen Stegner, Delaware  
Thomas Kazushige Sugimoto, Lancaster  
Andrew Michael Szaniszlo, North Olmsted  
Scot Alan Tutkovics, Lorain  
Jugal Kishore Vijayvargiya, Hudson  
Daniel Norman Wan, Columbus  
Laura Ann Weber, Lyndhurst  
Lori Ellen White, Columbus  
Kevin Dean Wilhelm, Mansfield  
James Michael Wolfe, Westerville

## Bachelor of Science in Engineering Physics

Donald Jeffrey Churchill, Eastlake  
William Wesley Dixon, Reynoldsburg  
Philip Enny, Belford, NJ  
Joseph Anthony Gentry, Cincinnati  
James Duncan Harris, Portsmouth  
Joseph Peter Maslar, Mt. Gilead  
Keith Edward O'Hara, Columbus  
Martin A. Riley, Lakewood  
Paula Jean Stevenson, Columbus  
Steven William Stitt, Crown City

Nicholas James Witcheby, Shelby

## Bachelor of Science in Industrial and Systems Engineering

Azah Bt. Abdul Rahim, Johor, Malaysia  
John Lucas Adams, Montpelier  
Irwan Ang, Medan, Indonesia  
Jeffrey Scott Annis, Columbus  
Cynthia Ann Black, Euclid  
Marina Chudnovsky, Cincinnati  
Melissa Lynn Cook, Thiells, NY  
Douglas Paul Decker, Medina  
Jill Cathleen Delaney, Beavercreek  
Douglas Jay Dupler, Lancaster  
Richard Joseph Eppich, Hinckley  
Mary Ellen Ernsthausen, Spencerport, NY  
Suzanne Marie Finnegan, Princeton Junction, NJ  
David Joseph Gaby, Brecksville  
Paul David Grove, Point Pleasant Beach, NJ  
Todd Kenneth Guss, Cumberland  
Cheryl Sue Harris, Cardington  
Eddy Hartono, Jakarta, Indonesia  
Christopher Edward Hollinger, Worthington  
Amy Lynn Husizer, Cincinnati  
Mark Steven Kirkendall, Pickerington  
Ranvir Kwan, Pekan Baru, Indonesia  
Edwin Darrell Long, Jr., Goshen  
Julianne Lupica, Hudson  
Richard William Maharrey, London  
Craig Allen Miley, Delaware  
James Lyle Miller, Elyria  
Deborah Helen Mobley, Eaton  
James Allen Monnin, Versailles  
Matthew Paul Mountain, Columbus  
Joseph Salvatore Mullner, Lorain  
Lisa Anne Mustake, Brookfield  
Philip Robert Ograd, Bellbrook  
David James Packard, Centerville  
Mark Gallagher Paquin, Madison  
Adnan Syed Qamar, Karachi, Pakistan  
Chad Patrick Riedel, Attica  
Stephen Thomas Rodriguez, Cleveland  
Corrine Ileen Rose, Dayton  
David Lawrence Roth, South Euclid  
Douglas Moore Rupp, Columbus  
Joan Ellen Schmidlin, Lyndhurst  
Amy Lou Sue Schmidt, Lewisburg  
Dyann Nicole Snek, Martins Ferry  
Robert Jeffrey Stauffer, New Bremen  
Natalie Jean Stokes, Cleveland  
Donald Paul Waring, Lyndhurst  
Seridi Widjaja, Malang, Indonesia  
John Thomas Williamson, Irondale  
Jeffrey Randall Wood, Pickerington

## Bachelor of Science in Mechanical Engineering

Francisco Javier Arleth, Madrid, Spain  
Robert Allen Bacu, Westerville  
Rose Marie Bohinc, Madison  
David Neil Bradwell, North Olmsted  
Derrick Louis Brent, Washington, PA

John Patrick Brophy, Ann Arbor, MI  
Jonathan Dean Buonamici, Hubbard  
Karen Lynn Burch, Worthington  
Raymond Scott Cartier, Cincinnati  
Kris Andrew Christensen, Columbus  
James Michael Colver, Jr., Worthington  
Richard Edward Delehanty, Centerville  
Steven Joshua Gluck, Cleveland  
Barry Matthew Gluntz, Canton  
Michael Nelson Haas, Richmond Heights  
Raymond Estler Heyd, Lorain  
Keith Alan Hohler, Dayton  
Alan Glen Holmes, Zanesville  
Leonard Gerard Horstman, Springfield  
Joseph Charles Jira, Northfield  
Tae Young Kwak, Cleveland Heights  
Ruth Ann Lada, Martins Ferry  
James Dean Marple, Lancaster  
James Francis Million, Columbus  
Victor Carlos Moreno, Wyoming  
Darlene Regina Nagel, Hartford  
Jeffrey Mark Penkowski, Concord  
Matthew Charles Pickston, Shaker Heights  
Scott Eric Post, Painesville  
Jonathan Drew Rader, Mansfield  
William Allyn Reed, Reynoldsburg  
William Paul Reinhard, Chesterland  
Douglas Paul Ritzenthaler, Columbus  
Richard Scott Robinson, Mt. Vernon  
Brian Patrick Rooney, Bay Village  
Carl Raphael Rorick, Circleville  
Jonathan Mark Sabol, Reynoldsburg  
Richard William Sachwitz II, North Canton  
Alan Todd Sandifer, Alliance  
Stacy Ann Schimmel, Marysville  
Tala Jamal Shaheen, Findlay  
Brian Allen Shockey, East Liverpool  
Glen Walter Spehr, Gahanna  
Richard Keith Spyker, Lima  
Douglas Lemoine Straub, Sardis  
Isi Sudit, Lima, Peru  
Larry Eugene Swackhammer, Reynoldsburg  
Douglas Scott Thoma, Dayton  
John Cloyce Thomas, Findlay  
Robert Michael Tracy, Pittsburgh, PA  
Vinh Kim Tran, Columbus  
Koorosh Vossough, San Jose, CA  
Jeffrey Allan Walch, Sylvania  
James Ronald Wharton, Avon  
Thomas Eugene Wiseman, Kettering  
Christopher John Wodarczyk, Grove City  
Dennis Arthur Yard, Madison

### **Bachelor of Science in Metallurgical Engineering**

David J. Bradley, Columbus  
Peter William Brown, North Canton  
David Keith Findley, Mansfield  
Frederick Dale Geib, North Canton  
David Scott Haghir, Wooster  
Mark Andrew Harper, Columbus  
John Leo Hauck, Columbus  
James Paul Krzykwa, Vermilion  
Stephen Edward Maddox, North Canton

Nanda Kumar Manogaran, Ipoh, Perak, Malaysia

James Michael Mullen, Kettering  
Patrick Jon Murley, Marble Cliff  
John Augustin Neff, Zanesville  
James Nick Sajatovic, Willoughby Hills  
William K. Schlichting, Callicoon, NY  
Gerald Stoltman, Solon  
Ronald Lewis Stutsman, Botkins  
Eugene Kwanghowe Tan, Singapore, Singapore  
Jeffrey Alan Taylor, Gahanna  
Joseph Charles Wisvari, St. Clairsville

### **Bachelor of Science in Surveying**

Robert Andrew Bosworth, Pickerington  
Scott William Delisio, Olmsted Township  
Dru Alan Smith, Toledo

### **Bachelor of Science in Welding Engineering**

Daniel Burl Arthur, Mentor  
James Terry Banal, Jr., Dillonvale  
Eric Jon Barnhouse, East Liverpool  
Garry Galen Brown, New Baltimore  
Kevin Lee Cogar, Columbus  
Andrew Duffy Cooper, Pittsburgh, PA  
Curtis Dean Davies, Chardon  
John Logan Davis, Jr., Columbus  
Jay Richard Eastman, North Canton  
David Alan Elliot, Youngstown  
Eric Joseph Giese, Cincinnati  
Richard Samuel Green, Fairfield  
David Allen Grewell, West Lafayette  
Patrick Michael Griffin, Wadsworth  
David Scott Haghir, Wooster  
Jeffrey Boyd Hardesty, Columbus  
Douglas Scott Hoyt, Elyria  
Terri Tomas Infield, Sugar Creek  
Robert Christian Jonas IV, Columbus  
Dan C. Kingman III, Lincoln, NE  
Scott Wendell Knappen, La Crosse, WI  
Jeffrey Michael Kuehn, Parma Heights  
Tomas Jerker Magnusson, Halleriksstrand, Sweden  
Vance Alan McCray, Columbus  
Karen Irene Miller, Warren  
Michael Gerard Poss, Worthington  
Lonnie Irving Rush, Jr., Pickerington  
James Joseph Saelens, Carpentersville, IL  
Matthew David Shalosky, Reynoldsburg  
Steven Mark Smith, Mt. Blanchard  
Thomas Frederick Smith, Bexley  
Robert Allen Spicer, Mansfield  
Christopher Allan Thomas, Sidney  
Bart Eric Thrash, Westfield Center  
Steven Charles Zanola, Milford  
Douglas Alan Zimmerman, Salem

## **School of Architecture**

### **Bachelor of Science in Architecture**

Jeffrey W. Allsbrook, San Pedro, CA  
Julie Ann Baird, Salem  
Steven Brent Baker, Pittsburgh, PA  
Marcia Kay Baschnagel, Columbus  
Robert Edmund Boone, Pittsburgh, PA  
Jeffrey Alan Brooks, Dayton  
Alexander D. Christoforidis, Columbus  
Christine Louise Clark, Sagamore Hills  
Thomas Robert Davis, Worthington  
Richard Paul DeMarco, Jr., Mentor-on-the-Lake

Craig Eugene Dillon, Springfield  
Scott Alan Draughn, Sidney  
James George Dreisa, Gahanna  
Juan Elejabettia, Madrid, Spain  
Robert Karl Evans, Cleveland Heights  
Bryan Lee Faunt, Sylvania  
Anthony Errol Feilback, Englewood  
Richard J. Fisher, Jr., Girard  
Mark Stephen Foster, Toledo  
Brian Neal Gieser, Pandora  
Todd Alland Griffith, Washington Court House  
Martin Allan Griggs, Columbus  
Scott Richard Harper, Columbus  
David Eliot Jamison, Worthington  
Edward Charles Jerdonek, Louisville  
Brad Avi Kekst, Beachwood  
Mark B. Kimura, Dayton  
Benjamin Edward Kyles III, East Cleveland

Christopher Jan La Rosa, Columbus  
Chih-Ming Lin, New York, NY  
May Lo, Coral Gables, FL  
Wilson Ngai Hiang Loh, Singapore  
Laura Ann Martina, Parma  
Christine LeAnn Meeker, Findlay  
Kyle Erich Miller, Marietta  
Randall Clay Mullins, Wheelersburg  
Kevin Paul Pierce, Laura  
Ronald Henry Ruppensburg, Columbus  
Craig Louis Rutkowski, Fairborn  
Gary Lee Sebach, Zanesville  
Douglas Allan Skriac, New Carlisle  
Steven Fredrick Smith, Perrysburg  
Jon Joseph Sofranec, Poland  
Evangelos Epiphaniou Solomonides, Larnaca, Cyprus  
Alyssa C. Spechalske, Lodi  
Douglas Eugene Swartz, Fairlawn  
Mark Owen Taylor, Marysville  
Boonswee Tee, Kuala Lumpur, Malaysia  
Geraldyn Campanelli White, Canton  
Philip Owen Wince, Jr., Lancaster  
Bradford Mitchell Winkeljohn, Columbus  
Kah Ong Wong, Kuching, Malaysia  
Todd Raymond Wrobleksi, Westlake

## Bachelor of Science in Landscape Architecture

Melinda Mary Appold, Toledo  
Janice Lee Auble, Huron  
Cletus Joseph Benken, Cincinnati  
Peter John Burke, Youngstown  
Kenneth Scott Dickerman, Manlius, NY  
Joseph Allen Fry, Cincinnati  
Andrew C. Gay, Columbus  
Timothy Charles Glorioso, Willard  
Mary Ann Hemli, Huntington, NY  
Robert Arthur Jurs, Jr., Sandusky  
Michael Dennis Kannard, Lima  
James Scott Louthen, Columbus  
David Charles Moeser, Pinehurst, NC  
Laura Ann Murray, Eastlake  
Eric Michael Nagy, Delaware  
John August Paglalunga, Canton  
Carol Ann Perovshek, Willoughby  
Carolyn Ann Risch, Blacklick  
Christopher Anthony Rowney, Toledo  
Boris Milan Terebuh, Bellefontaine  
David Alan Warye, Columbus  
Donald F. Willner, Jr., Tipp City  
Brian James Yoder, Toledo  
Ted Allen Zangmeister, Bremen

## College of Home Economics

Dean: Lena Bailey

### Bachelor of Science in Home Economics

Diane Mae Acton, Yellow Springs  
Stefani Jill Adelman, Pepper Pike  
Mary Beth Aeh, Galloway  
Diana Lynne Altenburger, Lima  
Megan Aileen Anello, Cincinnati  
Lori Lynn Angelo, Wakeman  
Leila Ruth Bardill, Parma  
Amy Beth Beard, Harpster  
Kimberly Dawn Besecker, Troy  
Leeann Michelle Biarsky, Lyndhurst  
Jamie Renée Black, Kenton  
Terri Rochelle Brenneman, Wooster  
Jennifer Lyn Brock, Okeana  
Kelly Sue Brown, Willoughby  
Robin Lynn Bryan, Wilmington  
Annette Margarite Campbell, Columbus  
Pamela Louise Card, Worthington  
Christine Marie Carroll, Kettering  
Camilynn Jo Chattin, Fredericktown  
Amy Joanne Clement, Lima  
Steven Lee Corsover, Columbus  
Cami Jean Cropper, Bolivar  
Lynda Rachelle Curl, Piqua  
Jill Leslie Davis, Pepper Pike  
Marsha Ann Davis, Vestal, NY  
Donna Leigh Decker, Orient  
Daniel Joseph Demasty, Mentor  
Brenda Eileen Dillon, Newark  
Constance L. Dow, Worthington  
Kelli Jean Ehrhardt, Mayfield Village  
Patricia Ann Estep, Columbus

Margaret Anne Bannan Eversole, Worthington  
Rhonda Kay Freeman, Lore City  
Cynthia Ann Fuller, Delaware  
Lori Lynn Gaiser, Westerville  
Lynn Ellen Gayton, Columbus  
Mary Suzanne Glancey, Columbus  
Kimberly Ellen Goodman, South Euclid  
Sheryl Marie Groff, Mansfield  
Jill Leslie Gurwin, Columbus  
Lisa Marie Haney, Xenia  
Suzanne Marie Harper, Tiffin  
Stephanie Allison Hartman, Wayne, NJ  
Susan Elaine Heckman, Troy  
Jennifer Marie Hegerty, Columbus  
Charlene Louise Henderson, Reynoldsburg

Jill Anne Hines, Bellefontaine  
Daphne Jane Hippie, Columbus  
Susan Elizabeth Hirsch, Cleveland  
Lori Ann Holbrook, Jackson  
Brenda Kay Hoving, Anna  
Karoline Lee Humphrey, Columbus  
Elizabeth Susan Ice, Lorain  
Janet Ineson, Huron  
Patricia Ann Jacobs, Gambier  
Audrea Yvonne Johnson, Middletown  
Kurt Robert Kessler, Reynoldsburg  
Pamela Faith Kest, Cleveland  
Pamela Sue Kollman, Hudson  
Elizabeth Jane Kuhn, Shaker Heights  
Kimberly Ann Kumler, Lancaster  
Alyssa Dyan Kutz, Concord  
Lori Kay Lammers, Minster  
Martha Ann Landrum, Cleveland Heights  
Natalie Kriss Lederer, Shelby  
Diane Kay Leflar, Waynesboro, VA  
Mary Margaret Liles, Belle Center  
Lisa Dianne Luckado, Westlake  
Isabel J. Martin, Shaker Heights  
Lisa Marie McCoy, Grove City  
Cynthia Lynn Michael, Cincinnati  
Mary Helen Murphy, Sunbury  
Leanne Stephanie Neuhart, Caldwell  
Audra Kay Nickels, McArthur  
Dorothy Kathryn Nolan, Columbus  
Jennifer Sue Parker, Westerville  
Susan Marie Pavlovic, Kenton  
Valerie Anne Pendleton, Norwalk  
Yvonne Ruth Perry, Massillon  
Deborah Lynn Price, Mentor  
Ronald Craig Pruiksmas, Columbus  
Susan Emily Purvis, Hamilton  
Christine Danielle Rapol, Zanesville  
Denise Lynn Rapp, Gibsonburg  
Tina Louise Ray, Kingston  
Tricia Louise Robinson, Bloomingburg  
Devon Leigh Romp, Avon Lake  
Lisa Sue Rosenblum, Beachwood  
Andrea Louise Royer, Columbus  
Tricia Ruthann Russo, Reynoldsburg  
Julie Beth Schorr, South Euclid  
Amy Lynn Selby, Middletown  
Laura Lynn Sensenbaugh, Centerville  
Amy Lee Sessi, St. Clairsville  
Amy Margaret Stuve, Chesterland  
Amy Elizabeth Synk, Berea  
Theresa Marie Tosino, Toledo  
Donna Marie Trentel, Lakewood

Ted Nicholas Tryba, Wilkes-Barre, PA  
Sandra Lynne Urig, Avon Lake  
Gina Marie Wachinger, Worthington  
Amy Cathleen Walker, Bellbrook  
Elizabeth Ann White, Columbus  
Sulyn Wildoner, Wilmington  
Julia Anne Wilson, Columbus  
Mary Jean Wirtz, Columbus  
Monica June Woodard, Lima

### Bachelor of Science in Hospitality Management

Lisa Carol Archer, Dublin  
Paul Kurt Baerenstecher, Houston, TX  
Kelli Lyn Buess, Wharton  
Patricia Nelle Cleary, Columbus  
Curtis Clay Deeter, Greenville  
Robert Lawrence Gray, Columbus  
Russell Paul Guenther, Akron  
Rebecca Lee Hancock, Columbus  
Deborah Rose Johnson, Hamilton  
Susan Kay Jordan, Ridgeway  
Randall Kirby Knapp, Columbus  
Yvonne Carmen Lohrer, Republic of Panama  
Susan Kay McConnell, Columbus  
Brian Donald McKay, Arlington Heights, IL  
Anthony Robert Serio, Columbus  
Thomas Todd Stewart, Bridgeport  
Lisa Ellen Tillson, Trumbull, CT  
John Willis VanDervoort, Jr., Columbus

### Bachelor of Science Nutrition

Hassan M.F. Farhood, Riyadh, Saudi Arabia  
Vincent Frank Ferrini III, Worthington  
Ryan Paul Hanson, Fostoria  
Sandra Marie Jones, Cincinnati  
Jeffrey Ray Neher, Bay Village  
Matthew Stevenson Wayne, Shaker Heights

## College of Law

Dean: Francis X. Beytagh, Jr.

### Juris Doctor

John Stanton Addams, Marysville B.A.  
Margaret Bush Apel, Portsmouth A.B. Psychology (Ohio University)  
Christopher Armstrong, Cuyahoga Falls B.S. (University of Akron)  
Carolyn Susan Baker, Centerville B.S. (Wright State University)  
Joseph Edwin Balmer III, Kettering B.A. (Emory University)

- Rolf Eric Baumgartel, Youngstown  
A.B. (Ohio University)
- Luann Kathryn Bellanca, Centerville  
B.A. (University of Cincinnati)
- John Patrick Besselman, Alliance  
B.S. (Kent State University)
- Gregory John Betchkal, Shaker Heights  
B.A. (Fairfield University)
- Yvonne Luketich Blauvelt, Lockbourne  
B.S. (Indiana University of Pennsylvania);  
M.A., Ph.D.
- Denis Jay Bowshier, Mt. Sterling  
B.A.
- Michele Denise Brown, Detroit, MI  
A.B. (University of Michigan)
- Bruce Martin Broyles, Lancaster  
B.A. (Wittenberg University)
- Diana Fay Butts, Columbus  
B.A.
- Margaret R. Carmany, Columbus  
B.A. (Heidelberg College)
- Carol Lynn Cassell, Grove City  
B.A.
- James Lee Catanzaro, Jr., Mentor  
B.A.
- Alison Lanier Cauthorn, Reedsville  
B.A. (Ohio Wesleyan University)
- Melissa Ann Chase, Alpharetta, GA  
B.A.
- Judith Ann Clausing, Dayton  
B.S. (Heidelberg College)
- Ruth Evelyn Clough, Cleveland  
B.A. (Cleveland State University)
- Rachelle Cohen, Dayton  
B.A., B.A. Jour.
- Debra Ann Colacci, Westerville  
B.A. (Miami University)
- Cindy Ann Coleman, Cincinnati  
A.B. (University of Michigan)
- LaVawn Dee Coleman, New Concord  
B.A.
- Regina Adelle Collins, Cincinnati  
A.B. (Mount Holyoke College)
- Kevin Robert Connors, Columbus  
B.A. (University of California, Berkeley)
- Karin Connolly, State College, PA  
B.A. (The College of Wooster)
- Kevin Thomas Connor, Enon  
B.A. (Central Connecticut State College)
- Mona Lisa Cook, Columbus  
B.A. (New York University)
- Peggy Jean Corn, Columbus  
B.A. (University of Kentucky);  
M.A., Ph.D.
- Connie Anne Crim, Dublin  
B.A. (Mount Union College)
- Philomena Mary Dane, Kent  
B.A. (Saint Norbert College)
- Laura Pearson Davis, Gibsonburg  
B.S. Bus. Adm.
- Kerry Brice Dawson, Newark  
B.A.
- Paul Albert DeBolt, Jr., Cadiz  
B.A. (John Carroll University)
- Lawrence John DeBrincat, Livonia, MI  
B.S. (University of Detroit)
- Carol Landis Demmler, Columbus  
B.A. (Capital University)
- Harry Joseph De Pietro, Girard  
B.S. (Youngstown State University)
- Debra Ann Dixon, Mansfield  
B.A. (Wheaton College)
- Gina Cecile Donald, Jersey City, NJ  
B.S. (Virginia State University)
- Tami L. Dorris, Gahanna  
B.A.
- Michael Dubetz, Powell  
B.S.C.E. (The University of Akron)
- Mitchell David Dudek, Sidney  
B.S. (Texas A & M University)
- Patrick Brian Duricy, Niles  
A.B. (Youngstown State University)
- Keith Rollin Eakins, South Charleston  
B.A.
- Dannia Linn Edwards, Detroit, MI  
B.A. (Albion College);  
M.B.A. (Wayne State University)
- Daniel R. Elliott, Shaker Heights  
A.B. (University of Michigan)
- Richard P. Emich II, Akron  
B.S. Bus. Adm.
- Juliana M. Faris, Grove City  
B.A.
- Walter Tuttle Florence, Plain City  
B.A. (Wheaton College)
- Kevin R. Floyd, Benton Harbor, MI  
B.B.A. (Northwood Institute)
- Debra Lynne Fortenberry, Milford, MI  
B.A. (Central Michigan University)
- Kimberly Ann Friedman, Toledo  
B.A. (Grinnell College)
- James E. Fryman, Oxford  
B.Phil. (Miami University)
- Roy Ellis Gabbert, West Union  
B.A.
- Susan Marie Gabriel, Columbus  
B.A.
- Sylvia Lynn Gillis, Flagstaff, AZ  
B.A. (Northern Arizona University)
- Carrie Elizabeth Glaeden, Janesville  
B.A. (University of Wisconsin, Madison)
- Jodi Ann Govern, Alliance  
B.A.
- Dodd Joseph Gray, Columbus  
B.S. (Purdue University)
- Robin Williams Green, Worthington  
B.S. Agr.
- John Paul Gruber, Cincinnati  
B.A. (Xavier University)
- Eric Michael Gutenberg, Bloomfield  
Hills, MI  
A.B. (University of Michigan)
- Jennifer A. Hardin, Cincinnati  
B.A. (University of Cincinnati)
- James W. Harshaw, Eugene, OR  
B.S. (University of Oregon)
- Richard J. Helmreich, Worthington  
B.S. (Bowling Green State University)
- Jonathan D. Henry, Dayton  
B.A. (University of Dayton)
- Kristin Elena Hildebrandt, Dayton  
B.S. (Wright State University)
- Felicity M. Hillmer, Tiffin  
B.A. (Denison University)
- Ann Aileen Holom, Fort Wayne, IN  
B.A. (Indiana University)
- Jeffrey Howard Hurdley, Youngstown  
B.A.
- John Duffield Jackson, Bryan  
B.A.
- Douglas Richard Jennings, Columbus  
B.A.
- Laura Leigh Joly, Dayton  
B.A. (Indiana University, Bloomington)
- Anthony Theodore Kaplanis, Canton  
B.A.
- Deborah Ann Katz, Aurora  
B.A. (University of Pennsylvania)
- John Wright Kennedy, Columbus  
B.A.
- Kirt T. Kisselle, Bowling Green  
B.S. Bus. Adm. (Bowling Green State  
University)
- Curtis Horn Knapp, Columbus  
B.S. Aviation
- Jamie Belle Kreiling, Reynoldsburg  
B.S. Bus. Adm., M.B.A.
- Vincent E. Lagana, Westerville  
B.A. (Rutgers University)
- Patricia J. Lamphear, Columbus  
A.D. in Nursing (Otterbein College);  
B.A.
- John L. Landolfi, Niles  
B.A. (Westminster College)
- Michael Joseph Lang, North Olmsted  
B.A. (College of William & Mary)
- Kammy Teresa Laycock, Stuart, FL  
B.A.
- David Charles Levine, Detroit, MI  
B.A. (Oakland University)
- Joseph A. Licavoli, Warren  
B.A. (Kent State University)
- Kyung-Jin Lim, Dearborn, MI  
A.B. (University of Michigan)

Marion Homer Little, Jr., Columbus  
B.A.

Rex Allen Littrell, Maple Heights  
B.A. (John Carroll University);  
M.A.

David Allen Lopina, Cincinnati  
B.S. (Miami University)

Scott Joseph Mahon, Cincinnati  
B.A. (University of Cincinnati)

Robert Mark Maltz, Beachwood  
B.A.

Paul William Martin, Jr., Columbus  
B.S.E.E. (United States Naval Academy)

Marc David Matlock, Mayfield Heights  
B.A.

Joseph Anthony Matyskiela, Columbus  
B.S. (United States Naval Academy)

Deborah Elaine Mayer, Upper Arlington  
A.B. (Washington University)

Jeffrey Williams McCray, Columbus  
B.A.

Jonathon L. McGee, Kenton  
B.A. (Ohio Northern University)

Todd M. McKenney, Akron  
B.A. (Hiram College)

Noreen Mary McMahon, Rocky River  
B.A. (Baldwin-Wallace College)

Julia LaRita McNeil, Chicago, IL  
B.B.A. (Howard University)

Daphne Stavros Meimaridis, Lorain  
B.A. (Oberlin College)

Charles Michael Miller, Cincinnati  
B.S. (Indiana University)

Lawrence Walter Mitchell, Cincinnati  
B.A. (University of Cincinnati)

Boyd Kenneth Moehring, Gahanna  
B.A. (Capital University)

Andrew John Mollica, Athens  
B.A.

Nancy Darlene Moore, Frazeyburg  
B.S.Agr., M.S.

Sarah Jayne Moore, Montpelier  
B.S. (Bowling Green State University)

Mary Ellen Morgan, Columbus  
A.B. (Smith College)

Carol Horomi Morita, Columbus  
B.S.J. (Northwestern University)

Tod Timothy Morrow, Magnolia  
B.A. (Mount Union College)

Stephen Ashley Mortinger, Westerville  
B.A. (Denison University)

Linda Fickert Mosbocher, Gahanna  
B.A. (Otterbein College);  
M.A.

Michael Alan Moskowitz, Cincinnati  
A.B. (University of Michigan)

Margaret Frances Moy, Warminster, PA  
B.A. (Indiana University of Pennsylvania)

Jeffrey Alan Moyer, Bellevue  
B.S. (United States Military Academy)

Patrick Jarrett Mulligan, Dayton  
B.A. (Wright State University)

Craig Steven Myers, Dayton  
B.A. (Oberlin College)

Deborah Beth Newman, Youngstown  
A.B. (Washington University)

Nancy Lee Ogden, Sandusky  
B.A.

John Russell Paliga, Struthers  
B.S. (Youngstown State University)

Christopher Evan Parker, Worthington  
B.S.Bus.Adm.

Rusty Allen Payton, Chesapeake  
B.A.

Roxanne Olivia Peach, Olney, IL  
B.S. (University of Illinois)

Julia Ann Petrik, Rittman  
B.S. (University of Akron)

Lawrence David Pollock, Cincinnati  
B.A. (Miami University)

Claudia Helena Porras, Miami, FL  
B.A. (Eastern Kentucky University)

Gregory Allen Price, Youngstown  
B.A.

Keith Marilyn Rabenold, Cincinnati  
B.S.Bus.Adm.

Michael Allen Rambert, Columbus  
B.A. (Middlebury College)

John Joseph Reilly, North Olmsted  
B.A. (John Carroll University)

Amy Shepherd Riber, Flushing  
B.A.

Carol Ann Richards, Tulsa, OK  
B.A. (The University of Oklahoma)

Charles Eugene Ringer, Louisville  
B.A. (University of Akron)

Annette Joy Ritter, Worthington  
B.S.Nurs.

Jack Ralph Rosati, Columbus  
B.S.Pharm.

Steven Jay Rosenblum, Mayfield Heights  
B.S.Bus.Adm.

Jeffrey Carl Rossborough, Parma  
B.A. (University of Dallas)

Jeffrey Steven Routh, Girard  
B.A. (University of Virginia)

Charles Gregory Rowan, Toledo  
B.A. (University of Dayton)

Thomas George St. Pierre, Columbus  
A.B. (Miami University)

David Malcolm Sanders, Atlanta, GA  
B.S. (Wake Forest University)

Deborah Felece Sanders, Columbus  
B.S. (Franklin University)

Brian Edward Sandoval, Sparks, NV  
B.A. (University of Nevada-Reno)

Jeannine Catherine Sanford, Worthington  
B.A., M.A.

Dean Arthur Scheidler, Elyria  
B.A.

Jeffrey Scot Schira, Columbus  
B.S.C.E.

Neil David Schor, Beachwood  
A.B. (University of Michigan)

Perry Frank Sekus, Munroe Falls  
B.A. (Miami University)

James Wayne Sheridan, Poland  
B.A.

Robert Gregory Shumay, Parma  
A.B. (University of Michigan)

John Robert Smart, Columbus  
B.A. (Miami University)

Katherine Sue Spies, Dover  
B.A.

Brad Alan Sprayberry, Bryan, TX  
B.Sc. (Ohio University)

Cheryl Lee Sprinkle, Columbus  
B.A.

Renee Ann Stadel, Stockton, IL  
B.S. (University of Illinois)

Rebecca Roese Steele, Columbus  
B.S. (Franklin University)

Bryan Kent Stewart, Springfield  
B.A. (Wright State University)

Donna Owens Stokes, Fairborn  
B.S. (Wright State University)

Karen Sue Streacker, Tiffin  
B.S.Bus.Adm.

Kimberly Renee Strong, Miamisburg  
B.A. (Wright State University)

Richard Edward Surkamp, Cincinnati  
B.S. (Xavier University)

Andrew Glenn Sykes, Mansfield  
B.A. (Capital University)

Janet Leanne Szpond, Dearborn, MI  
B.A. (University of Maryland)

Robert Anthony Taormina, Columbus  
B.S. (University of Toledo)

Marc Alan Tenenbaum, Shaker Heights  
A.B. (University of Michigan)

Daniel Joseph Thomas, Fairview Park  
B.S. (Miami University)

Leslie Kay Thorpe, Toledo  
A.B. (Sarah Lawrence College)

Mark Steven Tibberts, Columbus  
B.A.

Charles Edward Ticknor, Mansfield  
B.A.

Timothy Todd Tullis, Toledo  
B.A. (College of Wooster)

Nancy Anne Utz, New Washington  
B.A. (Hollins College)

Elizabeth Ann Van Fossen, Powell  
B.A. (Miami University)

Teresa Villareal, Texarkana, TX  
B.S. (East Texas State University)

Nicholas Joseph Vizzy, Burton  
B.A. (John Carroll University)

Valerie Vlahos, Amherst  
B.S.Bus.Adm.

Robert Allen Wade, Delta  
B.A. (Bowling Green State University)

Brian Anson Walker, Columbus  
B.S. (Franklin University)

Gloria Bowman Washington, Columbus  
B.S.

Janis Anita Washington, Richmond, VA  
B.A. (University of Virginia);  
M.B.A.

Kristin Lynn Watt, Huron  
B.S.Bus.Adm.

David Stuart Watson, Mayfield Village  
B.A. (Allegheny College)

Jack Wilfred Whitesell, Jr., Columbus  
B.A. (Principia College)

Marcia Elizabeth Williams, Dublin  
B.A. (University of Arizona)

Kenneth Howard Wine, Cincinnati  
B.S.Bus.Adm.

Taffanee Lynn Woods, Indianapolis, IN  
B.S. in Public Affairs, Criminal Justice  
(Indiana University)

Susan Elizabeth Wuornien, Columbus  
B.S.Bus.Adm.

Dominick George Yacono, Brooklyn, NY  
B.A. (The American University)

Deborah Marie Yoon, Columbus  
B.A. (University of Steubenville)

Thomas Mark Zaino, Xenia  
B.B.A. (University of Cincinnati)

## College of Medicine

Dean: Manuel Tzagournis, M.D.

### Doctor of Medicine

Jonnette Merlee Miguel Ancheta, Santa Maria, CA  
B.S. (University of California-Los Angeles)

Gary Bernard Anderson, Upper Arlington  
B.A. (Amherst College)

Geoffrey Michael Anderson, Canal Winchester  
B.A. (Capital University)

John James Antalis, Shadyside  
B.S.

Michael John Aruta, Madison

Louis Gregory Arvanetes, Upper Arlington  
B.A. (Stanford University)

Kisa Ewing Barbour, Akron  
B.S.

Teri J. Barkoukis, Akron  
B.S. (University of Akron)

William Harold Bartlett, Mission Viejo, CA  
B.A. (University of California-San Diego)

Kian Behbakht, Columbus  
B.S.

Jeffrey Walton Bell, Washington, DC  
B.S. (West Virginia University)

Gregory John Benson, Poland  
B.A. (Wittenberg University)

Tami Dianne Benton, Cincinnati  
B.A. (Oberlin College)

Claudette M. Bibro, Strongsville  
B.S. (Kent State University)

Jonathan Paul Blasius, North Olmsted  
B.A. (The College of Wooster)

Robert Todd Bloom, Wyoming  
B.S.

Robert Howells Blotter, Cincinnati  
B.S. (Brigham Young University)

Charles John Bogdan, North Lima  
B.S. (Youngstown State University)

Michael Lee Boninger, South Euclid  
B.S.

Stephen Hayse Boyer, Jackson Center  
B.S.

Lisa J. Braverman, Dayton  
B.S. (University of Michigan)

Chris Brian Bringham, Fontana, CA  
B.A. (Brigham Young University)

Barry Allen Brokaw, Marietta  
B.S. (Duke University)

Kenneth Stephan Brown, Columbus  
B.S. (University of Massachusetts at Amherst)

Robert Victor Bulas, Newark  
B.S.

Wendelin Ann Burdo, Waterville  
B.S.

Eric David Burger, Fremont  
B.A. (Wittenberg University)

Sharon Linda Busey, North Canton  
B.S. (Ohio University)

Michael Andrew Campagni, Riverside, CA  
B.S. (University of Southern California)

Kevin Giles Campbell, Hamilton  
B.S. (University of Cincinnati)

Ann-Marie Campione-Stephens, Cincinnati  
B.S. (Butler University)

Mark Edward Caputo, Youngstown  
B.S. (Xavier University)

Denise Lynn Carpenter, Columbus  
B.S.

Carolyn Ann Chambers, Rochester, NY  
B.A., B.S.

Cindy Jee-Sing Chang, Columbus  
B.S.

Wen-shiung Chow, Columbus  
B.S. (National Taiwan University);  
Ph.D.

Joseph Patric Chozinski, Sheffield  
B.S. (University of Akron)

Debra Rae Cody, Medina  
B.A. (Northwestern University)

Harold David Cohn, Pepper Pike  
B.S. (The University of Michigan)

Tim Kiernan Conlan, Vienna  
B.S. (United States Naval Academy)

Kelley Martin Cousin, Ada  
B.S. (Ohio Northern University);  
Ph.D.

Mark Douglas Crawley, Columbus  
B.A.

Paul Ridge Culler, Lucas  
B.A.

Camilla Curren, North Ridgeville  
B.S.

Robert McMillion Custer, Pittsburgh, PA  
B.S. (University of Dayton)

Stephen Wayne Dailey, Jr., Cincinnati  
B.A. (Miami University)

Susan Lee Darmstadter, Lexington, KY  
B.S.

Karen Elaine Dearthmont, Akron  
B.A. (Kenyon College)

John Leonard DeFilippo, Yorkville  
B.S.

Lisa Marie Deranek, Seven Hills  
B.S. (Kent State University)

Denise Deschenes, Laconia, NH  
B.S. (University of New Hampshire);  
M.S.

Michael Dick, Shelby  
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M.S.

Leslie Carol Doctor, Greens Farms, CT  
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Janet Elaine Durick, Struthers  
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Kelly Jakubowski Emch, Toledo  
B.S. (University of Toledo);  
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Alice T. Epitropoulos, Columbus  
B.S.Nurs.

Ann Kyle Ericsson, Mansfield  
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Tina Louise Evans, Galion  
B.S.

Jeffrey Earl Everett, Deerfield  
 B.S. (Mount Union College)  
 John Charles Eyre, Columbus  
 B.A. (Miami University)  
 Michael Derwin Fetters, Hilliard  
 B.A.  
 Christopher Michael Fleming, Marion  
 A.B. (Kenyon College)  
 David Brian Fox, Dayton  
 B.A. (University of Cincinnati)  
 Lisa Ann Franko, Seven Hills  
 B.S.  
 Raymond Dayre Fuller, Delaware  
 B.S.  
 Jennifer Ruth Gallant, Columbus  
 B.M. (Indiana University)  
 Patrick Charles Gariety, Piqua  
 B.S. (Xavier University)  
 Mark Andrew Gersman, Vienna, WV  
 B.A.  
 Ellen Dongjoo Gim, Fairview Park  
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 B.M.E. (Wittenberg University)  
 Thomas Edward Greely, Reynoldsburg  
 B.S. (University of Cincinnati)  
 Robert Allen Greene, Beachwood  
 B.S.  
 Susan Elizabeth Griley, Columbus  
 B.A.  
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 B.A., B.A. (Mount Vernon Nazarene  
 College)  
 Mark Richard Grubb, Berea  
 B.S. (Bowling Green State University)  
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 Catherine Anne Hadaway, North Canton  
 B.S. (University of Akron)  
 Scott J. Hadaway, Elyria  
 B.S. (Bowling Green State University);  
 D.D.S.  
 David John Hak, Sawyer, MI  
 B.B.A., B.S. (The University of Michigan)  
 Lisa Ann Hamilton, Columbus  
 B.S.  
 David Duffield Hamlar, Jr., Columbus  
 B.S. (Tufts University);  
 D.D.S. (Howard University)  
 Thomas Peter Harder, Gallipolis  
 B.S. (Ohio University)  
 Randall James Harris, Wickliffe  
 B.A. (Miami University)  
 Joy Ann Hart, Greenville  
 B.A. (Cedarville College)  
 Ronald Lee Harter, New Madison  
 B.A. (Capital University)  
 Walter Herbert Haught, Littleton, CO  
 B.I.E. (Georgia Institute of Technology)  
 Timothy Eugene Hayes, Brandford, CT  
 B.S. (University of Connecticut)  
 Wendy Jo Heck, Plymouth, MN  
 B.A. (Carleton College)  
 Raul A. Hernandez, Jr., Youngstown  
 B.S.  
 Sean Patrick Heron, Kettering  
 B.A. (Denison University)  
 Joan Lynn Huffman, Barberton  
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 James Allen Jacob, Toledo  
 B.A. (Miami University)  
 Michelle Ylagan Jimenez, Middleburg  
 Heights  
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 Paul Linden Jones, Berea  
 B.A. (Case Western Reserve University)  
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 B.A. (DePauw University)  
 Lisa Margret Keder, Bradford, PA  
 B.A. (Oberlin College)  
 Paul Evan Kelner, Beachwood  
 B.S.  
 Stephen Joseph Kennedy, Bexley  
 B.S.  
 Hanan Kerr, Cincinnati  
 B.S., M.S.  
 Sean Kaulin Kesterson, Upper Arlington  
 B.S.  
 Parisa Khavari, Warren  
 B.A. (Case Western Reserve University)  
 John Sang Ho Kim, Bowling Green  
 B.S. (University of Michigan)  
 James Patrick Klejka, Sheffield Lake  
 B.A. (Kenyon College)  
 Paula Chi-Lin Ko, Columbus  
 B.S.  
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 B.S. (Wright State University)  
 Kevin Richard Kruse, Cincinnati  
 B.S. (Denison University)  
 John Michael Lahorra, Pepper Pike  
 B.A. (Miami University)  
 Joseph William Lanese, Cleveland  
 B.S. (Kentucky Wesleyan College)  
 Alyson Hope Leeman, Columbus  
 B.A.  
 Charles Edward Levy, Cleveland  
 B.A. (Case Western Reserve University)  
 Lapman Lun, Hong Kong  
 B.S., M.S. (Case Western Reserve  
 University)  
 Tuan Anh Luu, Columbus  
 B.S. (Yale University)  
 Michael Joseph Makley, Columbus  
 B.A. (Boston College)  
 George Anthony Martin, Columbus  
 B.S.;  
 M.S. (Central Missouri State University)  
 John Patrick Martucci, Akron  
 B.A. (Akron University)  
 Paul Ramon Maynard, Chelmsford, MA  
 B.A. (Skidmore College)  
 Leon McDougale, Sandusky  
 B.A. (University of Toledo)  
 Mark Fletcher McGee, New Lexington  
 B.G.S., M.Ed. (Ohio University)  
 Matthew Murray McLaughlin, Kettering  
 B.S. (Ohio University)  
 Diana Lynne Mears, New Philadelphia  
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 Laurel Jeanne Mehler, South  
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 B.A. (University of California, San Diego)  
 Robert Joseph Meleca, Columbus  
 B.S.  
 Dale Andrew Michalak, Toledo  
 B.S.  
 Amy Ileen Miller, Beachwood  
 B.A. (Washington University)  
 Michael Anthony Moell, Dayton  
 B.S. (University of Dayton)  
 Jeffrey Scott Mollé, Richmond Heights  
 B.A. (Case Western Reserve University)  
 James Roger Monte, Lakewood  
 B.S.  
 Paul Franklin Moodispaw, Neffs  
 B.A.  
 John Patrick Morgan, Cincinnati  
 B.S. (University of Cincinnati)  
 Sayoko Eileen Morio-Fetters, Kent  
 B.A. (Duke University)  
 Gayle Ann Mosher, Rochester, NY  
 B.S. (State University of New York  
 College of Oneonta);  
 M.S. (University of Colorado)  
 Andrew Mark Muchow, Sylvania  
 B.A. (Ohio Wesleyan University)  
 Cynthia Jane Mueller, Adena  
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 Rajyalakshmi Mulukutla, Boston, MA  
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 Robert Arthur Musson, Akron  
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 Mari Elizabeth Myers, Columbus  
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 Mark Allen Myers, Alliance  
 S.B. (Massachusetts Institute of  
 Technology)  
 Katina V. Nicolacakis, Cuyahoga Falls  
 B.S. (Purdue University)

- Alexandros William Nicolozakes, Cambridge  
B.S.
- Scott Douglas Oates, San Diego, CA  
B.S. (Duke University)
- Richard George Ohye, Berkeley Heights, NJ  
B.A. (University of Pennsylvania)
- Jennifer Scherer Ouweleen, Niagara Falls, NY  
B.S. (Niagara University)
- Kevin Michael Ouweleen, Rochester, NY  
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- David Charles Packo, Toledo  
B.S. (University of Notre Dame)
- Lester Dean Padilla, Reseda, CA  
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- Trina Marie Pagano, Girard  
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B.S., M.S.
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B.A. (Kenyon College)
- Sam Lawrence Penza, North Jackson  
B.S., M.S. (Youngstown State University)
- Jan Ellen Perry, Huntington, WV  
B.S. (Wright State University)
- Bryan Lee Philbrook, Cardington  
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- Jeffrey Scott Philip, Toledo  
B.A. (Miami University)
- Debra Anne Pinsky, Toledo  
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- Janice Kay Pohlman, Hamburg, NY  
B.S. (Michigan State University)
- Amy Loren Pope-Harman, Baltimore  
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- Carl Douglas Porter, Springboro  
B.A. (University of Virginia)
- Angela Teresa Powell, Columbus  
B.S. (Virginia Union University)
- Phillip Duane Price, Medina  
B.A. (Capital University)
- Clifford Andrew Purcell, Owings Mills, MD  
B.S. (University of Florida)
- Theodore James Quilligan, Los Angeles, CA  
B.S. (University of California, Irvine)
- Jennifer Mylius Ridge, North Canton  
B.A.
- Beth Anne Ridgway, Dayton  
B.S.
- Joseph Aloysius Ridgeway IV, Bexley  
B.A., B.S. (University of Notre Dame)
- Joseph Leo Riethman, Maria Stein  
B.S.
- Bradley James Riley, Shelby  
B.S.
- Cliff Allen Robertson, Denver, CO  
B.A. (University of Colorado)
- Dina Kathleen Rooney, Canal Fulton  
B.S.
- Joseph John Rossi, Jr., Pickerington  
B.A. (Washington University)
- Michael Joseph Rubeis, Clinton  
B.S., M.S.
- Laura Jane Rue, Wauseon  
B.S. (Bowling Green State University)
- Gregory Lewis Runser, Elyria  
B.A. (Ohio Wesleyan University)
- Maria Therese Sammarco, Centerville  
B.S. (University of Miami)
- Gregg Matthew Santilli, Upper Arlington  
B.S.
- Carol A. Saylor, Bowling Green  
B.S. (Bowling Green State University)
- John Michael Schechter, Toledo  
B.S. (Miami University)
- Henry George Schneider III, Huntington Station, NY  
B.A. (State University of New York);  
M.S. (The Florida State University)
- Eric Christian Schroer, Cincinnati  
B.S. (Vanderbilt University)
- Primrose Anne Sedmak, Columbus  
B.S. (Wright State University);  
D.V.M.
- Dan Y. Shamir, Cleveland  
B.A. (Yeshiva University)
- Janet Joy Silbergeld, Garrett Park, MD  
B.A. (Stanford University);  
M.S. (University of California, Berkeley)
- Lorri Sills, Maumee  
B.S. (University of Toledo)
- Scott Evan Singer, Beachwood  
B.A. (Northwestern University)
- Navkaran Bhagwant Singh, Highland Heights  
B.S. (Northwestern University)
- Renu Sinha, Reynoldsburg  
B.S.
- Sukirtharan Sinnathamby, Dayton  
B.S. (University of Dayton)
- H. Wayne Slone, Beaver  
B.S.
- Norman Alan Smyke, Jr., Kirtland Hills  
B.S.
- Anthony Newman Sodd, Cincinnati  
B.S., M.S. (University of Cincinnati)
- David Francis Soehner, Kettering  
B.A. (University of Dayton)
- Jeffrey Ward Spychalski, Upper Arlington  
B.A. (Vanderbilt University)
- Jean Ellen Starr, Tiffin  
B.S.
- Jeffery Edward Stedwill, Toledo  
B.S. (The University of Dayton)
- Harold Craig Stevens, Columbus  
B.S. (University of Akron)
- Roger Scott Stienecker, Wapakoneta  
B.S.
- Maureen Elizabeth Stubbs, North Olmsted  
B.S. (University of Notre Dame)
- Mary Kay Subler, Versailles  
B.S. (University of Dayton)
- Ken Takeshi Takegami, Honolulu, HI  
B.A. (University of Hawaii, Manoa);  
M.P.H. (University of Hawaii School of Public Health)
- Craig Richard Thompson, Columbus  
B.S. (Otterbein College)
- Cecily Mary Tobin, Columbus  
B.S. (University of Iowa)
- Karen Elaine Tobin, New Washington  
B.A. (Wheaton College)
- Cathy Lynne Vendeland, Lyndhurst  
B.S. (University of Michigan)
- Alexia S. Verghese, Wadsworth  
B.A. (Case Western Reserve University)
- Francis Albert Voegelé, Mansfield  
B.S. (University of Notre Dame)
- James Warren Wagner, Grosse Pointe Farms, MI  
B.A. (Albion College)
- Angela Mary Walther, Cincinnati  
B.S. (University of Cincinnati)
- Elizabeth Terese Walz, Mt. Vernon  
B.A. (Miami University)
- William Lloyd Washington, Columbus  
B.S.
- Frederick Daniel Watanabe, Kensington, CA  
B.A. (University of California, Berkeley)
- Eden Victoria Wells, San Francisco, CA  
B.A. (University of California, San Diego)
- Elizabeth F. White, Shippensburg, PA  
B.S.
- William Bruce White, Albany, GA  
B.A. (San Francisco State University)
- Susan Holly Wicke, Athens  
B.F.A., B.S. (Ohio University)
- Gary Anthony Wilson, Oxford  
A.B. (Miami University)
- Roger Duane Wilt, Wilmington  
B.A. (Wittenberg University)
- James David Wines, Jr., Franklin  
B.S., B.A. (Evangel College)
- Terry Eugene Wiseman, Lexington  
B.S. (Bowling Green State University)
- Michael David Yokum, Wadsworth  
B.A. (Wittenberg University)



James Robert Young, Canton  
B.S.

Mark Joseph Zimpfer, Rochester, NY  
B.A. (State University of New York at  
Buffalo)

## School of Allied Medical Professions

### Bachelor of Science in Allied Health Professions

Caroline Rita Abram, Youngstown  
Elizabeth Ballard Alexander, Gahanna  
Darlene Marie Almaguer, Toledo  
Nichole Dawn Ames, Sycamore  
Russell James Annis, Jr., Columbus  
Brent Steven Applebaum, Columbus  
Amy Beth Armstrong, Coldwater  
Jana Diane Bach, Beavercreek  
Meri Beth Bagnoli, Tallmadge  
Lori Lynn Baker, Columbus  
Bruce Beth Balmenti, East Liverpool  
Bruce Charles Barillas, Columbus  
Laurie Lynne Bell, Columbus  
Gina Maria Belsito, Worcester, MA  
Deborah Sara Bergman, Columbus  
Marion Polly Conol Bitticker, Tiffin  
Lisa Marie Blocher, Canton  
Monica Marlene Bohman, Springboro  
Cheryl Susan Boldt, Toledo  
Michelle Leigh Bowen, St. Clairsville  
Robert Douglas Boyle, North Canton  
Lori Ann Brudzinski, Fremont  
Michelle Lynn Bugh, Alliance  
Kimberly Sue Bullock, Columbus  
John Edward Burkhardt, Jr., Brecksville  
Anne Frances Burns, Ashland  
Jane Ellen Carlson, Avon Lake  
Jayne Lynn Carr, Marengo  
Patrick Joseph Carr, Marion  
Jack Thomas Carruthers, Akron  
Carla Marie Carter, Germantown  
Patricia Marie Chiara, Cincinnati  
Amberly Daneen Christman, Mansfield  
Robert Phillip Clawson, Harpster  
Leah Beth Clendening, Mt. Vernon  
Clara Susan Cline, Mansfield  
Melissa Anne Cunningham, Columbus  
Craig William Davis, Fredericktown  
Susan Manhart Denzer, Akron  
Mona Mahmoud Diarbi, Saida, Lebanon  
Donald Michael Diener, Waverly  
Stephanie Lee DiFrancesco, Canton  
Randi Faith Dolin, Beachwood  
Laurie Elizabeth Duffield, Rochester, NY  
Deborah Susan Elek, Tappan Lake-Scio  
Haifa Hussein El-Khatib, Palestine  
Sharon Kay Ellwood, Columbus  
Susan Elaine Elmerick, Tallmadge  
Diane Marie Emlaw, Mentor  
Susan Joan Emmons, Kennebunkport, ME  
Teresa Ann English, Cambridge  
Patricia Jo Estes, Thornville  
Robert Anthony Evans, Cincinnati  
LaRaine Anne Fernald, Olmsted Falls  
Kimberly Sharon Finchum, Columbus  
Daphne Kay Foltz, North Canton  
Maria Louise Fortkamp, Coldwater  
Kris Marie Fought, Bexley  
Joyce Beth Fried, Dayton  
Kimberly Ann Fritzsche, Hamilton  
James Michael Fuchik, Columbus  
Jeanne Marie Galecki, Wadsworth  
Daphne Lynn George, Thornville  
Joseph Mark Geric, Hamilton, Ontario,  
Canada  
Drew Winfield Goddard, Salem  
Julie Anne Grady, Willoughby Hills  
Kreg Ross Gruber, Greenville  
Marc Elmer Haas, Dayton  
Manal Saad Eddine Habbal, Sidon,  
Lebanon  
Kathryn Marie Hamilton, Warren  
Kristen Marie Hamilton, Warren  
Jennifer Lynn Heisel, Oxford  
Mark Wesley Hejduk, Austintown  
Diane Marie Hemmelgarn, Dayton  
Laurie Anne Herraz, Canton  
Russell Edward Hessler, Westerville  
Thomas Ralph Hetzel, Columbus  
Leslie Mills Holland, Darien, CT  
Anita Jeanne Holler, Columbus  
Michael Thomas Horner, St. Clairsville  
Karen Christine Howell, Lima  
Yvonne Ruth Jackson, Belpre  
Lisa Victoria Jedrzynski, Dudley, MA  
Kelly Lee Jubb, Columbus  
Kimberly Ann Kallick, Trenton  
Cynthia Rae Kelbley, Fostoria  
Maureen Elizabeth Kirwin, Columbus  
Robert Richard Klein, Cleveland  
Janet Elaine Kneisly, Englewood  
Susan Marie Koehl, Findlay  
Gary Joseph Kreuz, Delta  
Renee Michelle Ladd, Columbus  
Eric Steven Langus, Mayfield Heights  
Stuart Erwin Loesch, Centerville  
Suzanne Marie Mack, Cincinnati  
Maurine Witalec Maneely, Heath  
Kristine Sieglind Martin, Worthington  
Elane Matthews, Van Wert  
Timothy John McCormick, Centerville  
Eva Michelle McPeak, Chesterland  
Patricia Coventry Megchelsen, Lorain  
Catherine Jo Meyer, Sherwood  
Gregory William Miller, Fremont  
Dianne Mary Moning, Cincinnati  
Gretchen Elizabeth Montgomery, Toronto  
Jennifer Jo Morbitzer, Grove City  
Cynthia Lynn Murray, Beavercreek  
Timothy Richard Myers, Painesville  
James Richard Neikirk, Springfield  
Christine Marie Nettles, Wadsworth  
Diane Michelle Neu, Cincinnati  
Jacqueline Ann Newgent, Akron  
Lisa Renee Null, London  
Colleen Theresa O'Kane, Bucyrus  
Amy Catherine Olhava, Perry  
Diana Louise Paige, Amherst  
Jill Ann Pasacic, Brookfield  
Jerri Lynn Pequignot, Englewood  
Mary Kayleen Peterman, Cincinnati  
Margaret Ellen Phelps, Cincinnati  
Rebecca Michele Piatt, Cincinnati  
Ann Louise Pohlmann, Bowling Green  
Patricia Marie Poorman, Mansfield

Teresa Joyce Porter, Lucasville  
Tina Marie Posterli, Youngstown  
Linda Marie Rethman, Versailles  
Denese Angela Roberts, Dublin  
Kristine Marie Roberts, Sycamore  
Erika Elizabeth Ronces, Strongsville  
Claire Ann Rothchild, Cincinnati  
Rodney Rozumny, Stow  
Lisa Marie Safonovs, Cleveland  
David Howard Sambuco, Mt. Pleasant  
Debra Sue Saunders, Lima  
Marcia Joy Scaglione, Canton  
Paula Jo Schimmoeller, Ottawa  
Carolyn Frances Schmit, Coldwater  
Ronda Lynn Seelig, Holly, MI  
Vicki Ann Sherman, Columbus  
Joseph Edward Simko, Highland Heights  
Sharon Sue Smithberger, Pataskala  
Donna Lynn Solinski, Garfield Heights  
David Bryan Somogyi, Mayfield Heights  
Lori Ann Sotman, Beavercreek  
Ann Marie Stazenski, Toledo  
Diana Mason Steele, Columbus  
Mark Philip Stephan, Canton  
Christopher John Strassell, Lucas  
Denise Lynn Strickland, Springfield  
Carl Alan Switzer, Logan  
Deanne Margaret Szymanski, Brecksville  
Traci Lyn Temple, Ellington, CT  
Sudara Annette Thompson, Cincinnati  
Debra Lynn Thornton, Tallmadge  
David Robert Tushar, Eastlake  
Charise Marie Vacca, Columbus  
Sandra Lynne Valencic, Oregon  
Jennifer Anne Waid, Warren  
Clare L. Wallin, Dayton  
Maureen Ellen Walsh, Fairview Park  
Maria Beth Walton, Cincinnati  
Sandra Julia Watson, Commack, NY  
Nancy Kathleen Westhoven, Dublin  
Brenda Sue White, Parma Hts.  
Anita Marie Wilson, Steubenville  
Jennifer Kay Wilson, Greenville  
Sally Ann Worton, North Royalton  
Lisa Lee Yannone, Canton  
Ann Elizabeth Yoder, North Canton  
Angela Rene Young, Fremont  
Janet Kay Young, Quaker City

### Certificate of Post Baccalaureate Circulation Technologist

David Ansley Duffey, Hapeville, GA  
B.S. (Furman University)  
Certificate (Emory University)  
Certificate (University of Chicago)  
B.S.Nurs. (Creighton University)

### Certificate of Post Baccalaureate Medical Illustrator

Heather Ann House, Clyde  
Bachelor (University of Notre Dame)

### Certificate of Post Baccalaureate Medical Technologist

Jane Susan Gimigliano, North Canton  
B.A. (Miami University)  
Suzanne Long, Columbus  
A.A., B.A. (Ohio Dominican College)

### Certificate of Study in Medical Dietetics

Lisa Ann DeMatteo, Columbus  
B.S.  
Krystie Ann Russell, Gahanna  
B.S.H.E.  
Connie R. Gase Speros, Tiffin  
B.A. (Heidelberg College)

### Certificate of Study in Physical Therapy

William Russell Grote, Columbus  
B.S.Soc.Wel.  
Erich Leo Scheetz, Youngstown  
B.S. (Youngstown State University)

### College of Nursing

Dean: Carole A. Anderson

### Bachelor of Science in Nursing

Janet Arleen Akers, Baltimore  
Edward Joseph Alexander, Akron  
Susan Marie Andreski, Parma  
Michelle Separa Anloague, Seven Hills  
Pamela Joy Arthur, Fredericktown  
Phyllis Joy Atkinson, Galion  
Linda Kay Badt, Westlake  
Laura Lynn Barnes, Newark  
Susan Lynn Baumann, Elyria  
Deborah Ann Beathler, Mansfield  
Marci Hollis Biel, Columbus  
Jacqueline Sue Boespflug, London  
Lori Michele Bortz, Hartville  
Mary Lee Boschulte, Columbus  
Heidi Ann Brack, Richmond Heights  
Denise Diane Brandon, Akron  
Susan Cecilia Braun, Coldwater  
John Maurice Brion, Jr., Clearfield, PA  
Karen Louise Brown, Columbus  
Julie Anne Bush, Columbus  
Stephanie Christen Campbell, Seville  
Tammy Lynne Canfield, Mansfield  
Kelly Marie Carrico, Xenia  
Michelle Leigh Clapp, Dublin  
Christie Lynn Colman, Findlay  
Trissa Shae Corthell, Sidney  
Jill Marie Craig, East Palestine  
Cheri Cyrus, Ironton  
Jana Jo Dean, Washington Court House  
Patrick Joseph DiMeo, Mingo Junction

Julie Lynn Dinges, Dayton  
Pamela Lynn Dorst, Bowling Green  
Maureen Elizabeth Dowd, Worthington  
Lisa Marie Edwards, Columbus  
Lisa Ann Elbert, Elyria  
Annette Lynn Emery, Attica  
Tammy Lyn Emich, Akron  
Kathleen A. Engel, Kettering  
Valerie Thompson Erwin, Columbus  
Kristine Marie Fenstermaker, Champion  
Elizabeth Dunaway Fraley, Cardington  
Lesa Marie Fulks, Columbus  
Leigh Andrea Gadell-Newton, Columbus  
Kimberly Sue Gantt, Kettering  
Cathryn Marie Guider, Chesterland  
Tracey Lynn Hacker, Campbell  
Laurie Lynn Halmi, Milford  
Kathleen Mary Hanratty, Brunswick  
Kara Sue Hazeltine, Centerville  
Lara Scott Hefner, Lima  
Susan Lynn Henry, Westerville  
Caroline Grace Hermosura, Seven Hills  
Kimberly Jane Hinshaw, Toledo  
Karen Lynnette Hunt, Gahanna  
Kimberly Susan Imperata, Shadyside  
Dorothy Mae Jackson, Cleveland  
Loretta Kelly, Cincinnati  
Susan Joanne Kennedy, Bay Village  
Lori Ann Knowles, Alliance  
Gretchen Marie Koehler, Grove City  
Ellen Ruth Kopel, Ossining, NY  
Renee Marie Lange, St. Henry  
Mary Beth Langen, Hilliard  
Douglas Alan Lee, Columbus  
Kimberly Jean Leek, Cincinnati  
Sarah Marie Loy, Ashville  
Laurie Susan Magyar, Orwell  
Brenda Sue Manner, Sandusky  
Rebecca Sue Mastin, Gnadenhuetten  
Constance Marie McCourry, Canton  
Jean Ann McGonagil, Butler  
Kelly Ann McMeekin, Westerville  
Karen Josephine Menezes, Columbus  
Trisha Lynn Menezes, Berlin  
Natalie Kristin Millisor, Upper Arlington  
Lorraine Jean Moehrman, Columbus  
Elaine Irene Moorman, St. Henry  
Michelle Maria Morona, Strongsville  
Regina Faye Morris, Westerville  
Sharon Elizabeth Mramor, Highland Heights  
Valerie Ann Murino, Lima  
Rebecca Ann Nease, Columbus  
Betty The Nguyen, Middletown  
Jane Louise Olberding, Cincinnati  
Kathleen Marie Parker, Delaware  
Melanie Michelle Parmer, Alexandria  
Stephanie Lynn Pennington, Jackson  
Lynda Rae Petty, East Springfield  
Shelly Kathleen Phillips, Galena  
Amy Sue Pottschmidt, Cincinnati  
Karen Przeracki, Aurora  
Robin L. Rapkin, North Miami Beach, FL  
Cheryl Lynn Reinbold, Warren  
Paula Roush, Richmondale  
Julie Ann Schwartz, Youngstown  
Bonny Sue Sengel, Columbus  
Sharon Renee Sigler, Wooster  
Julia Kristine Skavari, Columbus

Robert Patrick Smailes, Wooster  
Kelly Marie Smith, Columbus  
Susan Claire Snyder, Warren  
Kimberly Sue Sonner, Hicksville  
Kiran Elaine Srivastava, Hamilton  
Pamela Rae Stinehart, Fostoria  
Denise Ann Stoll, North Lawrence  
Cynthia Ann Strauss, Valley City  
Linda R. Tokarsky, Gambier  
Andrea Lee Valentine, Chillicothe  
Michelle Marie Vince, Yorkville  
Carolyn Marie Wagner, Louisville  
Kathryn Jeanne Watkins, Medina  
Jacqueline Michelle Weigand, Stonecreek  
Jeni Jean Werstler, Cuyahoga Falls  
James Vernon Wiant, Coshocton  
Maria Lisa Wilkin, Cleveland  
Wendy Suzanne Williams, Solon  
Alicia Anne Williamson, Dublin  
Cary Ann Winkelmun, Shaker Heights  
Karen Sue Wolfe, Plain City  
Lisa Kristen Wolfe, Ashland  
Pamela Sue Wolford, Stoutsville  
Jessica Lynn Woodruff, Ashville

### College of Optometry

Dean: Richard M. Hill

### Doctor of Optometry

Mark Adam Beach, Fort Recovery  
John Eric Beigel, Sidney  
Theodore Melvin Brink, Napoleon  
Thomas Michael Britton, Sulphur Springs  
JoAnn Stotka Buckholz, Brook Park  
Michael George Buffo, Canton  
Carolyn Hinkle Clark, Huntington, WV  
B.A. (West Virginia University);  
M.A. (Marshall University)  
Jeffrey Wade Collins, Oxford  
Karen Ann Creed, Aurora  
Thomas Walter Cummings,  
Currytown, NY  
B.A. (Eisenhower College)  
John Joseph DeVito, Canton  
Kurt Kristopher DeVito, Canton  
Nathan H. Drum, Columbus  
B.S. (Pennsylvania State University);  
M.S., Ph.D.  
Jennifer Mary Fagedes, Cincinnati  
Gregory Joseph Fagert, Youngstown  
Richard Anthony Fenton, Portsmouth  
Stephen Scott Fleck, Celina  
Jeffrey C. Fogg, West Carrollton  
B.S.  
Maria Jeanette Fragoulis, Wintersville  
Frederick Allen Frost, Wellsville  
H. Robert Gaetano, Campbell

Paul Douglas Gammage, Columbus  
 Scott M. Hussing, Tallmadge  
 Craig Clifton Hyre, Elkins, WV  
 B.S. (Pennsylvania State University)  
 Scott Edward Keating, Lancaster  
 Jeffrey Joseph Kiener, Pataskala  
 B.S.  
 Christian Alan King, Archbold  
 Kenneth Marlin Kuhn, Niles  
 B.S. (Youngstown State University)  
 Suzanne Leah Forshey Leach, Jackson  
 B.S. (Rio Grande College)  
 Joaquin V. Lin, Beachwood  
 B.A. (Miami University)  
 Anthony Joseph Lorelli, Youngstown  
 B.S. (Youngstown State University)  
 Weston Ray Mangold, Dayton  
 B.S. (Bowling Green State University)  
 J. Alan Mannik, Sylvania  
 George Martuccio, Girard  
 B.S. (Youngstown State University)  
 William Leonard Miller, Columbus  
 B.S. (University of Dayton)  
 Yoongie E. Min, Columbus  
 B.S.  
 Christine L. Mormino, Chesterland  
 Thomas Frank Nagy, Perrysburg  
 B.S. (Miami University)  
 Terry William Nisbet, Middletown  
 Douglas David Oney, Beach City  
 Jeffrey R. Patterson, Austintown  
 Craig Stephen Pennell, Ravenna  
 Gilbert E. Pierce, Lexington  
 B.A. (Miami University)  
 Michael W. Raies, St. Clairsville  
 James Richard Ranft, Fairborn  
 B.S. (Bowling Green State University)  
 Kathleen Schmidt Reuter, Columbus  
 B.S.  
 Stephen R. Roark, Waynesville  
 Gary Stuart Scheer, Toledo  
 B.S.  
 Mark Allen Schoning, Ravenna  
 John Robert Smith, Akron  
 Ted Andrew Snyder, Mansfield  
 Rebecca Ann Stump, Gallipolis  
 B.S.N. (Ohio University)  
 Deborah Ann Valido, Dayton  
 B.S.  
 William Michael Walk, Pittsburgh, PA  
 Brian Edward Weber, Springfield  
 B.S. (Miami University)  
 Patrick Joseph Wellik, Britt, IA  
 B.S. (University of Iowa)  
 Todd David Winkler, Cincinnati

Mark Alan Yoder, Bluffton

## College of Pharmacy

Dean: John M. Cassidy

### Doctor of Pharmacy

Kathy Lower Fudge, Worthington

### Bachelor of Science in Pharmacy

Cheryl Annette Bentley, Strongsville  
 Jill Paige Bryant, Beavercreek  
 Barbara Ann Bryson, Zanesville  
 Mary Ann Buckingham, Wadsworth  
 Leslie Ann Campbell, Columbus  
 Yi-Yu Chen, Cincinnati  
 Margaret Rose Conner, Kettering  
 Anthony Adrian Cunningham, Dayton  
 Mary Michele DiCarlo, Steubenville  
 Jeffrey Michael Durthaler, Columbus  
 Karen Jean Eckles, Columbus  
 Mary Beth Fondriest, Dover  
 Gregory Joseph France, Evansville, IN  
 Felicia Victoria Frattaroli, Struthers  
 Jill Marie Gerst, Columbus  
 Kelly Ann Hall, Ashtabula  
 Gale Lynn Hallowell, Worthington  
 Eric Martin Hals, Columbus  
 Matthew William Houser, Centerville  
 Scott O'Keith Howard, Forest  
 Wesley Brandt Hunter, Tallmadge  
 Shelly Dawn Ickes, Dover  
 Michael Anthony Ihnat, Port Clinton  
 Brent Richard Kelly, Columbus  
 Matthew Stephen Kremin, Youngstown  
 Janet Layne Lallathin, Belmont  
 Livia Won Lee, Dublin  
 Whitney Ellen Longwell, Columbus  
 Laura Ann Lust, Columbus  
 Tami Masuoka, Chardon  
 Barbara Ann Matosky, Bedford  
 Linda Marie McQueen, Cincinnati  
 Mark Paul Mershon, Bristol, TN  
 Steven Mitchell, Columbus  
 Michael Eugene Orzo, Alliance  
 Joanna Estelle Panopoulos, Canton  
 Shawn Allen Pruchnicki, Loudonville  
 Diane Lynn Puermer, Canfield  
 Theresa Lynn Reinhard, Columbus  
 John Thomas Remchick, Mansfield  
 Joy Dianne Richesson, Columbus  
 Renae Marie Rindler, Fort Recovery  
 Dhanawanti Jagadish Sant, Columbus  
 Angela Marie Selby, Cincinnati  
 Patrick Church Shay, Mogadore  
 Jennifer Kay Shepherd, St. Clairsville  
 Diane Renee Simich, Brook Park  
 Janette Marie Sohl, Mansfield  
 Rebecca Allyson Stewart, Farmington  
 Hill, MI  
 Stacey Sue Strickler, Columbus  
 Daniel John Testa, Struthers  
 Julie Marie Tharp, Johnstown  
 Kelly Beth Tong, Hillsboro

Kathleen Joy Vieson, Cincinnati  
 Jean Marie Wrentmore, North Royalton  
 Suzanne Shu-Huey Wu, Columbus  
 Margo Jean Zeleznik, Chardon

## College of Social Work

Dean: Richard E. Boettcher

### Bachelor of Science in Social Work

Mekonen Gebreselassie Abraham,  
 Agordat, Eritrea, Ethiopia  
 Rosalind L. Anderson, Kenton  
 Sophia Antjas, Marion  
 Robyn Meryl Aurnou, Columbus  
 Julie Annette Boblenz, Marion  
 Joseph David Bodenhamer, Aston, PA  
 Peggy Ann Brockman, New Albany  
 Katherine Ann Brown, Worthington  
 Michelle Denise Capoccio, Columbus  
 Lynne Ann Case, Nevada  
 Adrienne Lynne Chenaault, Canton  
 Rhonda Elaine Clark, Columbus  
 John Louis DuPrey, Powell  
 Elizabeth Ann Earl, Worthington  
 Cecilia Willette Ey, Columbus  
 Gail Euanna Faulder, Jackson Center  
 Carolyn Louise Galgas, Parma  
 Jill V. Gates, Columbus  
 Keon Guysel Gregory, Gary, IN  
 Molly Jo Grubbs, Bellefontaine  
 Bonnie Lynn Hansen, Newark  
 Jennifer Florence Helton, Cincinnati  
 Mary Elizabeth Herold, Sandusky  
 Gayle Ann Horton, Reynoldsburg  
 Sharon Goldhardt Huffman, Sunbury  
 Kathleen Suzanne Irwin, Columbus  
 Shelley Kay Johnson, Newark  
 Jerome Edward Kearns, Worthington  
 Paul Robert Keiper, Lexington  
 Ronald William Keller, Crestline  
 Gilbert James Kerns, Jr., Newark  
 Rebecca Ann Koldys, Grove City  
 Julianna Dee Koob, Xenia  
 Stephanie Robin Kovac, Lordstown  
 Linda N. Lee, Columbus  
 Tigest Fesseha Lemlem, Gondar, Ethiopia  
 Anne Elizabeth Lytton, Bridgeport  
 Dawn Louise McCoy, Lancaster  
 Amy Lee McDaniel, Columbus  
 Christine Sue McDevitt, Columbus  
 Molly Ann McElfresh, Mansfield  
 Marjorie Lynn Mapes, Pickerington  
 M. Lucia May, Columbus  
 Mary Lynn Ann Mayer, Parma  
 Joyce Alene Middleton, Marion  
 Pamela Anne Myers, Fairfax, VA  
 Joy Linnette Napier, Willard  
 Susan Lynn Neiswander, Greenville  
 Polly Beth Northrop, London  
 Scott Allen Phillips, Canal Winchester  
 Ila Elaine Price, Marion  
 Kimberly Anne Price, Zanesville  
 Robert Joseph Prines, Euclid  
 Nancy Louise Putt, Wooster  
 Michele Denise Racle, Lima

Clarissa Ann Reber, Columbus  
 Janet Ricci, Mentor  
 Mary Elizabeth Ricketts, Orient  
 Jennifer Anne Sagstetter, Columbus  
 Kay N. Schamp, Columbus  
 Sara Anne Schlachter, Toledo  
 Teri Lee Seas, Marion  
 Dale Lee Smallwood, Ashtabula  
 Amy Eleanor Smith, Lancaster  
 Karen Sue Storts, Columbus  
 Pamela Sue Strange, Lima  
 Judith Ann Teach, Upper Arlington  
 Joseph George Tomaszewski, Richmond Heights  
 Robert Anthony Voisard, Columbus  
 Virginia A. Whisman, Columbus  
 Roger Kenneth Wycoff, Jr., Columbus  
 Bryan A. Zappulla, Columbus

## College of Veterinary Medicine

Dean: Ronald A. Wright

### Doctor of Veterinary Medicine

Daiquiri Beth Ahart, Berlin Center B.S.  
 Barbara Alice Allen, Hampton Falls, NH B.S. (University of New Hampshire)  
 Fred Owen Altizer, Centerburg  
 Tracy Roberts Arvin, Fairfield B.S. (Miami University)  
 Peter Anthony Averill, Danville, NH B.S. (University of Maine)  
 Charles Irvin Bancroft, Beloit B.A. (Malone College)  
 Jeffrey Alan Baranack, Youngstown B.S. (Kent State University)  
 Linda Heckman Bayt, Wickliffe B.S. (John Carroll University); N.D. (Case Western Reserve University)  
 Dusty Elaine Bechtel, Cincinnati B.S.  
 Richard Tod Beckett, Findlay B.A. (Denison University)  
 Cathy Miriam Bill, Brooklyn, NY B.S. (Brooklyn College); M.S.  
 Linda Miller Blakeley, Looneyville, WV B.S. (West Virginia University)  
 George Vincent Bohart, Lincoln, NE B.S. (University of Nebraska-Lincoln)  
 Joseph Paul Bonacquist, Collingswood, NJ B.S. (Lebanon Valley College)  
 Michael Alan Bowman, Walton, KY B.S. (University of Kentucky)  
 Darla Anne Boyk, Pemberville B.A. (Capital University)

David William Brandstadt, Lima B.S. (Miami University)  
 Julia Louise Brown-Herold, Stow B.S., M.S. (University of Akron)  
 Cheryl Diane Burger, Dayton B.S. (Wright State University)  
 Beverly Rieser Byrum, Grove City B.A., M.S.  
 Thomas James Campagnolo, Bayonne, NJ B.S.  
 Daniel Cowen Carey, Cincinnati A.B. (Miami University)  
 Phyllis Ann Ciekot, Baltimore, MD B.A. (College of Notre Dame)  
 Mark Howard Claus, Las Vegas, NV B.S. (University of Nevada-Reno)  
 Chad Alex Current, Rosewood  
 Robin Gail Davis, Cincinnati B.S. (University of North Carolina at Wilmington)  
 Shelby Eileen Davis, Salem, WV B.S. (West Virginia University)  
 Dana Marie Del Carlo, Virginia City, NV B.S. (University of Nevada-Reno)  
 Bonnie Renee Dill, Chardon  
 Lisa Marie Dombkowski, Oregon B.A. (Ohio Wesleyan University)  
 Jeanne Abke Eisenhour, Pemberville  
 Silvana Maria Eppich, Hinckley B.S. (University of Akron)  
 Amy Susan Farley, North Canton B.S.  
 Julia Finlayson, Mansfield B.S.  
 Gale Margaret Flanagan, Nutley, NJ B.S.  
 Timothy Andrew Fouts, Cincinnati  
 Ruth Ann Fox, Mason B.A. (Miami University)  
 Pamela Sue Fritsch, Warren B.S.  
 Susan Marie Gillespie, New London, NH B.S. (University of New Hampshire)  
 Renee Golenz, Bellbrook  
 John Grant Gordon, Bexley  
 Susan M. Goss, Columbus B.A., M.S.  
 James Paul Graf, Holdrege, NE B.S. (Kearney State College)  
 D. Conrad Griffith, Chagrin Falls B.S. (Miami University); M.S. (Michigan State University)  
 Daniel Lee Grooms, Chesterville B.S. (Cornell University)  
 Diane Kathleen Gross, Morgantown, WV B.S. (West Virginia University)

Karen Lee Gross, Pembroke, NH B.S. (College of William & Mary)  
 Alec Slone Hail, Miamisburg  
 Anne Elizabeth Hallock, Tallmadge B.S.  
 Joshua Mark Halper, Piscataway, NJ B.S. (Rutgers University); M.S. (Michigan State University)  
 Kathy Lee Hamilton, Westlake B.S., M.S.  
 Michael Brian Havens, Worthington  
 Robert Douglas Hoste, Highland Heights B.S., M.S. (John Carroll University)  
 Mary Jo Howe, Fremont, NE B.A. (University of Nebraska-Lincoln)  
 Brian Thomas Huss, Centerville B.S.  
 Alice Novotny Jeromin, Hinckley B.S. (University of Toledo)  
 Randall William Kantzer, Marion  
 Victor Stewart Katz, Kensington, MD B.S. (University of Maryland)  
 Sandra Jane Ketchum, Columbus  
 Karen Lynne Kline, Ipswich, MA B.S. (Iowa State University)  
 Terence Raymond Kline, Atwater B.S. (Mount Union College); M.S. (University of Arizona)  
 Julie Ann LaForge, Des Plaines, IL B.S., M.S. (University of Illinois)  
 Linda Borsetti Lehmkuhl, Lutherville, MD B.S. (Virginia Polytechnic Institute and State University)  
 Colleen Rene MacInnis, Centerville B.S.  
 Victoria Lea Madwar, Columbus B.S.  
 Michael Marino, Maple Heights  
 Pamela Ann Marts, Cincinnati B.S.  
 Timothy Owen Mason, Toledo  
 Anthony Brian McCorkle, Reno, NV B.S. (University of Nevada-Reno); B.S.  
 Linda Jean McFall, Toronto B.S. (University of Steubenville); M.S. (Youngstown State University)  
 Daniel Hocks Meakin, Cincinnati B.S. (University of Notre Dame)  
 David Michael Miller, Chagrin Falls B.S. (Ohio University)  
 Rustin MacArthur Moore, Spencer, WV B.S. (West Virginia University)  
 Dolores A. Moran, Ellicott City, MD B.S. (Cornell University)

Megan Mowrey Moran, Point Pleasant, WV  
B.S. (Marietta College)

Kimberly Lynn Moulton, Columbus  
B.S. (Miami University)

Sue Ellen Mowcomber, Amherst  
B.S. (Miami University)

Michael Eugene Mull, Wauseon  
Erle Douglas Murphey, Payne  
B.S.

Jean Marie Murphy, Deerfield  
B.S.

Heather Lynn Myers, Akron  
B.S. (University of Akron)

Roxane Gaskill Olson, Fairfield, ID  
B.S. (Oregon State University)

Yvonne Lucia Otero, Carson City, NV  
B.S. (University of Nevada-Reno)

Robert William Outzs, Coshocton

Steven Craig Parks, San Antonio, TX  
B.S. (Texas Technological University);  
M.S.

Scott Alan Pendleton, Bloomingtondale  
Mary Lynn Perdzock, Dayton  
B.S.

Hannah Marie Pitstick, Yellow Springs  
B.S. (Xavier University)

Ann Louise Porter, Mobile, AL  
B.Music (Auburn University);  
M.Music (University of Miami)

Kate Wemple Pouch, Columbus  
B.S.

Kimberly Irene Powell, Kent

John Walter Reveley, Englewood, NJ  
B.S. (Cook College-Rutgers);  
M.S., Ph.D.

Jeanne Marie Roan, Potomac, MD  
B.S. (Loyola College)

Hector J. Roman Barcelo, Lares, PR  
B.S. (Tuskegee University)

Peggy Lynn Rowan, North Canton  
B.A. (Miami University)

Bonnie Robin Rush, Grafton

Harry Estil Sanford, Wellsburg, WV  
B.S. (West Virginia University)

Pamela Egan Sawyer, Upper Arlington  
B.A. (Springfield College)

Lori Ann Schiefer, Marion  
B.S.

Douglas Robert Schmidt, Cincinnati  
B.S.

Sally Lynne Sifferlin, New Philadelphia

Marianne GERALYN SKEBE, Highland Heights  
B.S. (Cleveland State University)

Katherine C. Smith, Fairborn  
B.S. (Marshall University);  
M.S. (Wright State University)

Robin Edith Smith, Bellevue  
B.S.

Stewart Shannon Smith, Cincinnati  
B.A. (George Washington University);  
M.S., Ph.D. (Georgetown University)

Kevin James Soncrant, Oregon  
B.S.

Samuel Wallace Speck III, New Concord  
B.A. (Earlham College)

Donald Frederick Swerida, Wall Township, NJ  
B.S. (Monmouth College)

Lisa Jane Taylor, Ashland  
B.S.

Kent Alan Thompson, Carrollton  
B.S.

Virgil Dale Tongish, Marshallville  
B.A. (Otterbein College)

Jeffrey Ray Towery, Dayton  
B.S. (Wright State University)

Tammy Dee Trout, Nelsonville  
B.S. (Ohio University)

Juan Vera-Gonzalez, Yauco, PR

Laila Ramona Vilums, Omaha, NE  
B.S. (University of Nebraska-Lincoln)

Robin Elizabeth Wall, Lincoln, NE  
B.S. (University of Nebraska-Lincoln)

Heidi D. Ward, Fairview Park

Marc Alan Werthaiser, Cincinnati  
B.S. (University of Cincinnati)

Cynthia Ann White, Westlake  
B.A., B.A. (Mercyhurst College)

Lisa Marie Wickizer, Hebron  
B.A. (Transylvania University)

Brenda Sue Witzel, Omaha, NE

Donna Jean Woelfel, Cincinnati  
B.S.

Timothy Scott Woodruff, Columbus

## Graduates with Honors

Criteria for graduating with honors are as follows:

**Summa Cum Laude** designates those graduating in the top 3% of the class.

**Cum Laude** designates those graduating in the top 10% of the class.

**With Distinction** requires successful completion of a Senior Honors Thesis, oral examination, and graduation in the top 25% of the class.

**With Honors in the Liberal Arts** requires successful completion of the Arts and Sciences Honors Contract and graduation in the top 25% of the class.

**With University Honors** designates those graduating with circricular distinction and dedication to high educational goals.

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Chemistry

Partha Shankar Nandi

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in English

Dianne Kay Blankenbaker

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Italian

Lori Lynn Schwendeman

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Mathematics

William David Kalies  
Michael Alan Titko

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Molecular Genetics

Lori Michelle Vance

## Summa Cum Laude with Honors in the Liberal Arts and with Distinction in Psychology

Stephen Lee Crites, Jr.  
Timothy David Poland

## Summa Cum Laude with Distinction in Agricultural Economics

Darcy Ann Hartman  
Teri Ann Kraus

## Summa Cum Laude with Distinction in Anthropology

Susan Elaine Long

## Summa Cum Laude with Distinction in Civil Engineering

Dante Toby Zettler

**Summa Cum Laude  
with Distinction in Classics**

Kimberly Ann Salamon-Smith

**Summa Cum Laude  
with Distinction in Dance**

Deborah Marie Downs

**Summa Cum Laude  
with Distinction in English**

D. Scott Powell

**Summa Cum Laude  
with Distinction in Fisheries  
Management**

Craig Dean Brechbuhler

**Summa Cum Laude  
with Distinction in  
Food Science and Nutrition**

John Kevin Bailey

**Summa Cum Laude  
with Distinction in Industrial and  
Systems Engineering**

Donald Paul Warsing

**Summa Cum Laude  
with Distinction in International  
Studies**

Julia Anne Paxton

**Summa Cum Laude  
with Distinction in Mechanical  
Engineering**

Joseph Paul Jira

**Summa Cum Laude  
with Distinction in Medical  
Dietetics**

Anne Frances Burns

**Summa Cum Laude  
with Distinction in Metallurgical  
Engineering**

Mark Andrew Harper

**Summa Cum Laude  
with Honors in the Liberal Arts**

Shari Lynette Ayers  
Christopher David Chapman  
Paul Steven Eisenstein  
Donald John Fallon  
Rachel Ann Hart  
Stephanie Jeanne Herwick  
Robert D. Icsman  
Ruth Elaine Jackson  
Christopher Martin Lott  
Sean William Lynd  
Amy Susan McKee  
David Gerard Miller  
Robert Allen Noggle  
Heather Rachelle Ruland  
Michele Louise Selig  
Scott Allen Shanes  
Kenneth Richard Sibley  
Janet Sue Skarda  
Joan Elizabeth Slattery  
Leigh Anne Stahl  
Robert Paul Stephens  
Lisa Kay Tilton  
Jau Uon Yu  
Karla Jean Zimmerman

**Summa Cum Laude**

John James Antalis  
Janice Lee Auble  
Steven Lowell Ayers  
Christopher Brent Balough  
Kisa Ewing Barbour  
Richard Leroy Beightler, Jr.  
Martin Dean Bober  
Kenneth E. Boyd  
Linda Jean Broadbelt  
Melissa Irene Brooks  
Michael Scott Browning  
Justine N. Burris  
Julie Anne Bush  
Stephanie Christen Campbell  
Leah Beth Clendening  
Brian Kieth Compton  
Suzanne Marie Compton  
Adam Laban Cooper  
William John Cooper  
Donald B. Deal  
Jill Cathleen Delaney  
Clorinda Theresa DelGigante  
Debora Lynn Demmitt  
Mary Michele Dicarilo  
Michael Louis Doty  
Susan Disbennett Downey  
Leonard Andrew Dudzinski  
John Louis Duprey  
Amy Mary Engelhardt  
Jeffrey Earl Everett  
H. Robert Gaetano  
Lee Gasaway  
Brian Neal Geiser  
Sandrine Eve Geissler  
Joan Ellen Gish  
Roger Douglas Goddard  
Jodi Sue Graham  
Andrew Scott Gudge

Kimberly Denise Haldeman  
Bonnie Lynn Hansen  
George Jeffrey Harper  
Randall James Harris  
Diane Marie Hemmelgarn  
Wendi N. Higgins  
Patricia Ann Hill  
Sharon Goldhardt Huffman  
Kenneth James Hydak  
Kaisera Jamil  
Carol Pfender Jernigan  
Donna Rae Johnson  
Patricia Marie Kinneer  
James Patrick Klejka  
Stephanie Robin Kovac  
Rebecca M. Kummerer  
Tammi Jo Kurty  
Thaddeus J. Kwiatkowski  
Ruth Ann Lada  
Karen Marie LaFace  
Robert Michael Latin  
Linda Borsetti Lehmkuhl  
Jennifer Lee Leymaster  
Mary Margaret Lilko  
Lori Ann Little  
Cynthia B. Logan  
Christopher Jay Lynn  
Marjorie Lynn Mapes  
Becky Lynn McConnell  
Tracy Lynn McCreery  
Kathleen Joan McGrath  
Loh Joo Meng  
Paul Franklin Moodispaw  
Rustin MacArthur Moore  
Shannon Marie Mullins  
Jeffrey Lawrence Murphy  
Daniel Ernest Neely  
James Richard Neikirk  
Mark Douglas Niemczyk  
Alan Michael Nordyke  
Keith Edward O'Hara  
Elizabeth Ann Overly  
Steven Robert Phillips  
Michael Gerard Poss  
Michael James Preston  
John William Pruitt  
Janet Ricci  
Elizabeth Elaine Rick  
Frank Joseph Riemann  
Martin A. Riley  
Marines Rivera  
Kassandra Diane Robenalt  
Bonnie Robin Rush  
Kay N. Schamp  
Stephanie Kaye Scherger  
Kevin Richard Schockling  
Janden Elizabeth Schoeff  
Angela Marie Selby  
Donna Lynn Solinski  
Kimberly Sue Sonner  
Gregory Todd Steinmetz  
William Ronald Stevens  
Debra Kay Ray Swearingen  
Peter Joseph Torok  
Salvador Bernard Trinidad  
Daniel Craig Troutner  
Scott Alan Tutkovics  
Lisa Kay Wallace  
Jill Suzanne Weiner

Mary Elizabeth Welling  
Virginia A. Whisman  
David Bruce White  
Melinda Dawn Whittington  
Anna Marie Woodson  
Robert William Yarrington  
Dorothea Yoakum  
James Robert Young  
Vicki Ann Youngs

**Cum Laude  
with Honors in the Liberal Arts  
and with Distinction in Biology**

Deborah Lynn Shardy

**Cum Laude  
with Honors in the Liberal Arts  
and with Distinction in English**

Maryellen Corna

**Cum Laude  
with Honors in the Liberal Arts  
and with Distinction in  
Microbiology**

Laura Marie Tuhela

**Cum Laude  
with Honors in the Liberal Arts  
and with Distinction in Philosophy**

Trenton Douglas Merricks II

**Cum Laude  
with Honors in the Liberal Arts  
and with Distinction in Psychology**

John Merrit Ernst

**Cum Laude  
with Distinction and Honors in  
Pharmacy**

Barbara Ann Bryson  
Michael Anthony Ihnat  
Joy Dianne Richesson  
Dhanawanti Jagadish Sant

**Cum Laude  
with Distinction in Accounting**

David Christopher Martin

**Cum Laude  
with Distinction in Chemistry**

John Merrit Ernst

**Cum Laude  
with Distinction in Electronic Music  
Composition**

David Thomas Ralley

**Cum Laude  
with Distinction in Engineering  
Physics**

William Wesley Dixon

**Cum Laude  
with Distinction in Environmental  
Interpretation**

Juliet Wyleen Ballinger

**Cum Laude  
with Distinction in Food Science  
and Nutrition**

Tracey Leeanne Britton  
Anahita Keyhani

**Cum Laude  
with Distinction in Horticulture**

Dwight Raymond Tingley

**Cum Laude  
with Distinction in Industrial and  
Systems Engineering**

Setiadi Widjaja

**Cum Laude  
with Distinction in Immunology**

Michael Scott Kinch

**Cum Laude  
with Distinction in Mechanical  
Engineering**

Douglas Lemoyne Straub

**Cum Laude  
with Distinction in Nutrition**

Vincent Frank Ferrini III  
Matthew Stevenson Wayne

**Cum Laude  
with Distinction in Photography  
and Cinema**

Thomas Alan Baumann  
Scott Jeffrey Manders

**Cum Laude  
with Distinction in Physical  
Therapy**

Patricia Jo Estes

**Cum Laude  
with Distinction in Psychology**

Eric Gray Myers

**Cum Laude  
with Distinction in Spanish**

Margaret Mary Olsen

**Cum Laude  
with Distinction in Textiles and  
Clothing**

Leila Ruth Bardill

**Cum Laude  
with Distinction in Wildlife  
Management**

Lucinda Gay Harper

**Cum Laude  
with Honors in the Liberal Arts**

Deborah Lynne Beckerich  
Geneva Maureen Buckholz  
Lisa Ann Cobourn  
Jennifer Susan Falk  
Christine Anne Gayton  
Nicole Linda Kelsey  
Nancy Paula Lazar  
M. Bridgette Mariea  
Thomas Dean McKinley  
Valerie Lynn Merklin  
Thomas Makar  
William Howard Musolf  
Susan Reneé Opalenik  
Stanley Joseph Rapiey  
Jennifer Lynn Rusnak  
Arthur Grant Stephens  
Charles Patrick Sweeney  
Martin Thurn  
Anju Tripathi

**Cum Laude  
with University Honors**

Mekonen Gebrelessi Abraham  
John Charles Beck  
Melanie Lee Bene  
Gregory Scott Boyer  
Nancy Jayne Briton  
Mary Elizabeth Broderick  
Nancy Wilson Brownell

Bonnie L.B. Butcher  
Linda More Cole  
Douglas Jay Dupler  
Michael Joseph Ferguson  
Nancy Anne Fleming  
Ronald Steven Fritsch  
Laura Anne Hause  
Scott Allan Jones  
David Robert Kirkey  
Laura Ann Kozel  
Stephen Joseph Krak  
Wende Lance  
Susan Kay Longshore  
Diana Lynn Martin  
Joseph Peter Maslar  
Martin Edward Piccus  
Kyle Edward Riehle  
Mark Anthony Russell  
Roberto A. Segovia  
Denise Ann Silon  
Steven William Stitt  
Thomas Kazushige Sugimoto  
Jonathan Martin Vinson

**With Honors in the Liberal Arts  
and with Distinction in Cognitive  
Science**

James McDowell Beale

**With Honors in the Liberal Arts  
and with Distinction in English**

Emily Magdalene Mott

**With Honors in the Liberal Arts  
and with Distinction in Psychology**

Karen Ann Kehres  
Cynthia Ann Shelton

**With Distinction in Agronomy**

Robert Arthur Bouic

**With Distinction in English**

Craig Brendan Jacobsen

**With Distinction in Environmental  
Interpretation**

Debra S. Britton

**With Distinction in Fisheries  
Management**

Craig Thomas Mallison

**With Distinction in Mechanical  
Engineering**

Richard Edward Delehanty  
Scott Eric Post  
Vinh Kim Tran

**With Distinction in Natural  
Resources Development**

Denis Michael Dooley  
Scott Traylor Morris

**With Distinction in Nutrition**

Ryan Paul Hanson

**With Distinction in Parks and  
Recreation Administration**

Laurie Ann Gallagher

**With Distinction in Personalized  
Studies**

Rhonda L. Steakley

**With Distinction in Physical  
Education**

Nicolette Marie Lucas

**With Distinction in Poultry  
Science**

Paul Franklin Best

**With University Honors**

Harold James Anderson III  
James Phillip Bentley  
Martin Van French  
Michael Lawrence Hitzhusen  
Gayle Ann Horton  
Tamarah Therese Parson  
James I. Rodriguez  
Christienne Leigh Smith

**With Honors in the Liberal Arts**

Suzanne Michele Adams  
Lisa Fay Cribbs  
Paige Anne Crossley  
William Paul DeMora  
Ondrea Alexis Dutro  
Bradley David Egbert  
Daniel W. Elwell  
Ann Margaret Gamertsfelder  
Joseph Lee Koen  
Robert J. Lavigna

Stephen Todd Lingo  
Matthew David McDaniel  
Kristine Maria Meyer  
Fredrick Mark Reeve  
Ingrid Karen Ruf  
Scott Patrick Santee  
Cail Suzanne Stennett  
John David Sullivan  
David James Welty  
Karen Elizabeth Widder  
Jill Ann Wolfram

**Cum Laude**

Victoria Lynne Adams  
Margaret Harriet Antill  
Charles Edward Armstrong  
Phyllis Joy Atkinson  
Linda Kay Badt  
Karen Sue Barnes  
Tina K. Bavelis  
Jeffrey Walton Bell  
Kimberly Ann Bell  
David Andrew Bennett  
Lori Anne Bennett  
Christopher John Binder  
Donald Alan Birchler  
Kathleen Ann Boes  
Joseph Paul Bonacquisti  
Julianne M. Brink  
Michael John Britsch  
Mary Anne Brown  
Julia Louise Brown-Herold  
Michael George Buffo  
Jeffery Scott Burris  
June Kathryn Campbell  
Kevin Giles Campbell  
Marie Wallace Campbell  
Kimberly Jean Carroll  
Laurie Lynn Cermak  
Linda Sue Chaffin  
Cindy Jee-Sing Chang  
Edith Chang  
Jayne Ellen Charman  
John Tilman Childs  
Phyllis Ann Ciekot  
Christine Louise Clark  
Tracy Lea Click  
Kari Michelle Cline  
Kevin Ernest Cline  
Joanne Marie Clouse  
Lauren Hope Cohen  
Kelly Ross Cole  
Karin Jean Cook  
Kelley Martin Cousin  
Thomas Matthew Cox  
Jennifer Elizabeth Craig  
Stephen Allan Crane  
Timothy Colin Crawford  
Rod C. Crider  
Martin Bryant Crombie  
Timothy Lisle Cupp  
Chad Alex Current  
Michael David Curtis  
Cheri Cyrus  
Stephen Wayne Dailey, Jr.  
Debra Ann Daniel  
William Michael Davis



Jeffrey Shinault Day  
 Brandy Kaye Denisco  
 John Joseph DeVito  
 Julie Margaret Deyer  
 Michael Richard Dick  
 Nancy Sue Dickason  
 Greg Robert Emanuelson  
 Diane Marie Emlaw  
 Valerie Thompson Erwin  
 John Denoon Evans  
 Craig Mitchell Felton  
 John Robert Forche  
 Joann Friend  
 John Austin Fry  
 Jennifer Ruth Gallant  
 Michael Louis Gastier  
 Susan Marie Gillespie  
 Jon C. Gilliam  
 Roger Anthony Glenn  
 Robyn Helene Glickman  
 Todd Michael Goehring  
 Anna Marie Gossard  
 Eric J. Graffice  
 Virginia Ruth Gregg  
 Amy Christine Grissom  
 Diane Kathleen Gross  
 Mark Richard Grubb  
 Klaus Dieter Guter  
 Roberta Wilson Hall  
 Robin Lee Hall  
 Gale Lynn Hallowell  
 Jonda C. Harper  
 Daniel Louis Harmon  
 Paige Anne Harper  
 Catherine Ann Hartman  
 Ulf D. Hartwig  
 Russell John Harvey  
 Kristin Mae Haus  
 Kelly J. Heatwole  
 Wendy Jo Heck  
 Jennifer Lynn Heisel  
 Joetta Sue Heldman  
 David Russell Hermes  
 Laurie Anne Herraiz  
 Thomas Ralph Hetzel  
 Raymond Estler Heyd  
 Andrew Jay Higgins  
 Melinda Lou Hoffman  
 Albert Lee Hogan III  
 William Eugene Hopkins  
 David C. House  
 Scott O'Keith Howard  
 Joan Lynn Huffman  
 Susan Chiarello Hunter  
 Carolyn Marie Immel  
 Thisbe Marguerite Ingold  
 Michael Lee James  
 Patricia Lynnette Jones  
 Faith Denise Jurcyk  
 Randall William Kantzer  
 Christopher Jon Kaune  
 Jerome Edward Kearns  
 Katrina Marie Kehr  
 Amy Bronwyn Kendall  
 Gilbert James Kerns, Jr.  
 Lisa June Kikly  
 Sung Uk Kim  
 Robert Richard Klein  
 Karen Lynne Kline  
 Cathy Lynn Korikian  
 Haig Michael Korikian  
 Diane Louise Kumpf  
 Janet Layne Lallathin  
 Lawrence Wayne Lanum  
 Linda N. Lee  
 Amy Jo Leskey  
 Mary Margaret Liles  
 Leslie Jennifer Lowy  
 Christine Mary Luehrs  
 Lori Ann Mager  
 Maurine Witalec Maneely  
 Allen R. Markja  
 James Edward Martin  
 Valerie Anne Maseck  
 Tami Masuoka  
 Amy Lee McDaniel  
 Melissa Lee McDaniel  
 Marianne McDermott  
 Colleen Ann McFee  
 Gary Edward McNamara  
 Jozefa H. Mentrak  
 Catherine Jo Meyer  
 Mary Michelle Middeler  
 Julie Ann Miller  
 Mindy Lee Miller  
 James Richard Mitchell  
 William Thomas Moorhead  
 John Patrick Morgan  
 Richard Larry Morgan  
 Bradley Lawrence Mossbarger  
 Anthony Scott Mowrer  
 Connie Ann Mullins  
 Patrick Jon Murley  
 Jeffrey Ray Neher  
 Judit Nemeth  
 Dorothy Kathryn Nolan  
 Lisa Marie Novak  
 Teresa Marie O'Brien  
 Beth Ann Oehler  
 Douglas David Oney  
 Michael Eugene Orzo  
 Joel William Pankowski  
 Jacquelyn Kaye Parker  
 Kathleen Marie Parker  
 Ralph Jeffrey Peak  
 Sam Lawrence Penza  
 Sean Merle Pflaumer  
 Shelly Kathleen Phillips  
 Frank Polisena  
 Lauren Virginia Pollock  
 Joseph Edward Popely  
 Michael Edward Poth  
 Robert Joseph Prines  
 Michael Kenneth Provenza  
 Diane Lynn Puerner  
 James Richard Ranft  
 John Walter Reveley  
 Carol Jane Rice Lewis  
 Jonathan Andrew Rich  
 Chad Patrick Riedel  
 David William Riegel  
 Joseph Leo Riethman  
 Lori Beth Riga  
 Renae Marie Rindler  
 Douglas Kent Ritterling  
 Barbara Ann Rogers  
 Paula Roush  
 Robert Wayne Sandrock  
 Harry Estil Sanford  
 Florence Michelle Santos  
 Patricia A. Sapp  
 Debra Sue Saunders  
 Christopher Michael Scowden  
 Gary Lee Sebach  
 Primrose Anne Sedmak  
 Nancy Lynn Shapiro  
 Pamela Sloan Shumate  
 Katherine Christine Smith  
 Stewart Shannon Smith  
 Christopher David Snyder  
 Jeffrey Ward Spychalski  
 Brice Anthony Stammen  
 Jeffery Edward Stedwill  
 Lora Jean Stilke  
 Steven Ernst Stivers  
 Robert William Stonebrook  
 Sandra Sudarsky  
 Sharyn Talbert  
 James Fritzen Taylor  
 Darren Howard Thompson  
 Lora Elizabeth Thompson  
 Jeffrey Ray Towery  
 Stephanie Leigh Trent  
 Charles Paul Wagner  
 Kirk Georges Walker  
 Katherine Ellen Walmsley  
 Joseph David Ward  
 Kathryn Jeanne Watkins  
 Lori Ann Waugh  
 Theodore Allen Wegert  
 James M. Westfall  
 Lisa Marie Wickizer  
 Alicia Anne Williamson  
 James David Wines, Jr.  
 Scott Alan Winget  
 Michael Wayne Wolfe  
 Natalie Jo Wolfinger  
 Kah Ong Wong  
 Lisa Kathleen Young  
 Susan Marie Zaworski  
 Craig Allen Zeroski  
 Marjana D. Zupcan

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THE OHIO STATE UNIVERSITY  
OFFICIAL PROCEEDINGS OF THE  
ONE THOUSAND TWO HUNDRED AND FIFTY-FIRST MEETING  
OF THE BOARD OF TRUSTEES

Columbus, Ohio, June 2, 1989

The Board of Trustees met at its regular monthly meeting on Friday, June 2, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio, pursuant to adjournment.

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Minutes of the last meeting were approved.

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June 2, 1989 meeting, Board of Trustees

The Chairman, Mr. Berry, called the meeting of the Board of Trustees to order on June 2, 1989, at 1:10 p.m. He requested the Secretary to call the roll.

Present: John W. Berry, Chairman, Shirley D. Bowser, Hamilton J. Teaford, John J. Barone, Deborah E. Casto, John W. Kessler, Milton A. Wolf, Leslie H. Wexner, Sophia L. Paige, and Laurel A. Davis.

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#### **COMMITTEE APPOINTMENTS 1989-90**

Resolution No. 89-116

WHEREAS the appointments to Committees and representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1989-90 are as follows:

Educational Affairs	Deborah E. Casto, Chairman Hamilton J. Teaford, Vice Chairman John J. Barone Laurel A. Davis
Investments Committee	John W. Kessler, Chairman Shirley D. Bowser, Vice Chairman Milton A. Wolf
Standing Committee on Agricultural Affairs	Shirley D. Bowser, Chairman Steven D. Maurer, Vice Chairman, Ex Officio Deborah E. Casto
Student Affairs	John J. Barone, Chairman Leslie H. Wexner, Vice Chairman New Trustee Sophia L. Paige
Fiscal Affairs	John W. Kessler, Chairman Milton A. Wolf, Vice Chairman John W. Berry
Personnel Committee	John W. Berry, Chairman Shirley D. Bowser, Vice Chairman Hamilton J. Teaford
Development Fund Board of Directors	Deborah E. Casto (1989-91) Leslie H. Wexner (1989-91)
Inter-University Council	New Trustee
Research Foundation Board of Directors	John J. Barone (1987-90)
University Hospitals Board	Shirley D. Bowser Hamilton J. Teaford

**COMMITTEE APPOINTMENTS 1989-90 (contd)**

University Foundation  
Board of Directors

Milton A. Wolf  
John W. Kessler\*

Ohio State University Affiliates,  
Inc.

John W. Berry (term 1 year)  
Shirley D. Bowser (term 2 years)  
Hamilton J. Teaford (term 3 years)

\*Executive Committee

NOW THEREFORE

BE IT RESOLVED, That the Committee appointments and the representatives to the Research Foundation Board of Directors, the Development Fund Board of Directors, the Inter-University Council, the University Hospitals Board, the University Foundation Board of Directors, and the Ohio State University Affiliates, Inc., Board of Directors for 1989-90 are hereby ratified and confirmed.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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**RESEARCH FOUNDATION REPORT**

Mr. Barone:

I would like to report on the Research Foundation grants and contracts for the month of April 1989, which are shown in the Board agenda book. There are 100 awards listed which provide a gross income of \$6.0 million.

Funding for the first ten months of the fiscal year is 16 per cent ahead of the same period last year. Increases are noted for each of the funding sectors with the Federal Government and Industrial areas leading the way.

Some highlights of awards are:

\$174,000 from the Cincinnati Public Schools to the Center on Education and Training for Employment for a Review of Vocational Education Programs.

\$155,000 from the National Science Foundation to the Department of Psychology for a study on the basis of human emotion.

\$150,000 from the National Science Foundation to the Department of Mechanical Engineering for a study on glass to metal sealing.

\$120,000 from the American Heart Association to Professor Fred Cornhill for a study of fluid mechanic forces and heart disease.

Thank you. That concludes my report. Dr. Tom Sweeney of the Office of Research and Graduate Studies, is available to answer any specific questions you may have.

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## HOSPITALS BOARD COMMITTEE REPORT

Mr. Teaford:

The University Hospitals Board and two of its standing committees met on Thursday, May 25.

The Professional Affairs/Education/Research Committee received updates on medical staff activities and on protocol for reports to the Joint Commission on Accreditation of Healthcare Organizations. We reviewed the Dodd Hall Program Evaluation, which identifies the results and effects of rehabilitation services and is used in making future decisions for that facility. Medical Director, Dr. Hagop Mekhjian, reported that University Hospitals' mortality rates are the lowest in Central Ohio, lowest among Big 10 university hospitals, rank among the best in the nation, and are more favorable than many of this country's most prestigious hospitals. I think it is particularly interesting to note that we are the lowest in Central Ohio, as we are a tertiary care hospital. Which means the sickest people and the persons with the most severe injuries come to us; nevertheless, the likelihood of leaving the hospital alive is higher at Ohio State Hospital than any other hospital in this area. I think that is a particularly remarkable statistic. It seems to me that the principle goal of all patients is to leave. It is fascinating to see the comparison with our absolute peers -- the Big 10 hospitals -- as well as the other outstanding hospitals.

President Jennings:

Yes, in the end this is how you really measure the quality of the hospital. You can talk about research grants and Nobel prize winners, but if I go in a place, I want to come out well.

Mr. Teaford:

Also, the Administrative/Operations Committee received an initial plan for reducing the Hospitals' accounts receivable by ten days -- which is roughly 10 percent -- during the fiscal year ending June 30, 1990. And, I might say that this is a very well thought out plan which we were all very pleased to see. And it does indeed have periodic progress points within the year, so that we will be able to chart whether indeed we are achieving that goal of reducing the accounts receivable time and therefore, obviously, increasing the amount of funds that the Hospitals has available.

The primary agenda issue of the Committee was the review of the Hospitals' proposed 1989-90 operating budget. After lengthy discussion, the Committee endorsed the budget and recommended approval by the Hospitals Board. The proposed operating budget calls for an overall average rate increase of 9.9 per cent effective July 1, 1989. And everyone wanted to emphasize this -- that they assume the University's Early Retirement Program will not continue.

President Jennings:

But, I think it is important, also, to recognize that the University's Early Retirement System is a self-funding operation and has a payback of approximately 18 months for the entire institution.

## **HOSPITALS BOARD COMMITTEE REPORT (contd)**

Mr. Teaford:

But the way they account for it, it is a full hit up front -- which is more accounting principles that we don't understand.

President Jennings:

That is exactly right. It is accounting principles that are discouraging us from making savings.

Mr. Teaford:

The Hospitals Board meeting, which followed the Committee meetings, included updates on the medical center development activities and progress toward consolidating patients' bills into a single statement. And, I would just add that it would appear now that we will, within a very short time, achieve a single statement for all patients. I am totally optimistic on that score, which has not always been my feeling. I think we can be very pleased by the progress that we have had and the outstanding cooperation by the doctors in this regard.

The proposed 1989-90 operating budget was then endorsed by the Hospitals Board and recommended to the President and us.

Dr. George Kaye gave progress reports on the design of the psychiatric facility -- which I might point out has not yet been funded -- and preparation of a Certificate of Need for the Medical Logistics II project. This includes the new Surgical Intensive Care Unit at a level which is satisfactory to the surgeons, and two additional shelled-in floors -- which basically means they are empty.

Mr. Jack Riddles reported that bids have been received for work on the first and second floors of Dodd Hall, as part of the Dodd/Davis Interface project. Dodd Hall, if you will remember, is the rehabilitation facility. A program of requirements and schematic drawings for the third and fourth floors of Dodd Hall are being developed. Dr. Charles Mueller gave a very interesting presentation on digitizing x-rays. And, Dr. Kramer and Jack Havens were re-elected as the Hospitals Board Chairman and Vice Chairman, respectively. That completes my report, Mr. Chairman.

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## **INVESTMENTS COMMITTEE REPORT**

Mr. Kessler:

The Investments Committee heard the Endowment Investment Report, which showed a market value of \$277.8 million, as of May 19, which is \$30 million above the market value last June 30.

We also reviewed and discussed the report on Real Estate Investments presented by Mr. Nichols, which classified the Endowment's \$36.5 million in real estate investments into three categories: University area holdings (\$13.8 million), properties along State Route 161 (\$20.43 million) and those awaiting sale (\$2.26 million). Each property is appraised at least every two years.

### **INVESTMENTS COMMITTEE REPORT (contd)**

Mr. Kessler: (contd)

Mr. Nichols reported on the status of the Ramada Hotel property, whose stock was a gift to the Endowment. The renovation work will be completed with the opening of the restaurant and lounge scheduled for June 23. The transformation, which is ahead of schedule and within budget, has created a top rate addition to the University corridor. That completes by report, Mr. Chairman.

(See Appendix LIV for complete text of The Ohio State University Endowment Summary, May 19, 1989, page 1379.)

(See Appendix LV for chart on The Ohio State University Endowment Fund -- Real Estate Investments, page 1391.)

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### **ACADEMIC AFFAIRS COMMITTEE**

Ms. Casto:

This morning we received a report about the Promotion and Tenure process here at The Ohio State University. As Dr. Brand and others explained to us, this is a long and involved process that does not take place overnight. It takes careful consideration from each and every college, as well as outside the colleges where people are recommended for the tenure process, and even outside of this campus. It really is time consuming and involved. We were given charts and graphs showing how it goes from each individual college to the dean, then to the Provost, and of course the final decision is handed down.

(See Appendix LVI for charts on The Ohio State University Promotion and Tenure Process, page 1393.)

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Ms. Casto:

The Academic Affairs Committee is recommending for approval the following resolutions:

#### **APPROVAL OF APPOINTMENT**

Resolution No. 89-117

Synopsis: The Academic Affairs Committee recommended the appointment of President Edward H. Jennings to serve on the Board of Directors of the Ohio Aerospace Institute.

WHEREAS the State of Ohio has established an Ohio Aerospace Institute as a statewide resource designed to place Ohio's graduate degree granting engineering universities in the forefront of aerospace research and graduate education; and

WHEREAS the Ohio Aerospace Institute will conduct research and other programs of interest and assistance to faculty and students at The Ohio State University; and



June 2, 1989 meeting, Board of Trustees

### **APPROVAL OF APPOINTMENT (contd)**

WHEREAS the Ohio Aerospace Institute is a separately incorporated institute; and

WHEREAS Dr. Edward H. Jennings, as President of The Ohio State University, has been invited to serve on the Board of Directors of the Ohio Aerospace Institute; and

WHEREAS his presence on that Board of Directors would be of benefit to the interests of The Ohio State University;

NOW THEREFORE

BE IT RESOLVED, That the President represent the University on the Board of Directors of the Ohio Aerospace Institute, as part of his service on behalf of The Ohio State University.

Upon motion of Ms. Casto, seconded by Mr. Kessler, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

President Jennings:

The reason for asking your permission -- this is a combined program for the Ohio Board of Regents and NASA-Lewis in Cleveland, to generate a Ph.D. program eventually in aerospace. It will be governed by deans of engineering and university presidents. We are asking you to appoint me to this position so that in my capacity as a Board member they are covered under the Court of Claims law of the State of Ohio. The essential reason is so that we don't have to have D & O insurance in this organization.

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### **HOSPITALS BOARD APPOINTMENT**

Resolution No. 89-118

Synopsis: The Academic Affairs Committee recommended the approval of emeritus status to a Hospitals Board member.

WHEREAS pursuant to bylaw 3335-93-01 of the University Hospitals Board Bylaws, the Board of Trustees may designate emeritus Hospitals Board members; and

WHEREAS Robert M. Duncan has had a long and loyal association with this University and with University Hospitals; and

WHEREAS he was one of twelve citizen members originally appointed to the Hospitals Board and was elected as the Board's first Chairman; and

WHEREAS his dedicated service, commitment and contributions to the Hospitals Board have been noteworthy;

NOW THEREFORE

BE IT RESOLVED, That upon the recommendation of the Hospitals Board and the President, the title of Hospitals Board Member Emeritus be conferred upon Judge Robert M. Duncan, effective May 1, 1989.

June 2, 1989 meeting, Board of Trustees

### **HOSPITALS BOARD APPOINTMENT (contd)**

Upon motion of Ms. Casto, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **HOSPITALS BOARD REAPPOINTMENTS**

Resolution No. 89-119

Synopsis: The Academic Affairs Committee recommended the approval of reappointments of eight Hospitals Board members.

WHEREAS the Board of Trustees on November 30, 1979, approved the establishment of a University Hospitals Board; and

WHEREAS the membership of the Hospitals Board was approved on April 4, 1980, and has been subsequently amended; and

WHEREAS the terms of eight of the members selected from the general public have expired:

NOW THEREFORE

BE IT RESOLVED, That the following general public members be reappointed to the Hospitals Board for a period of three years, effective as noted:

Morris S. Rosenblum, M.D. - May 1, 1987 (third three-year term)  
Arthur I. Vorys - May 1, 1988 (third three-year term)  
John R. Hodges - May 1, 1988 (third three-year term)  
John F. Havens - May 1, 1989 (second three-year term)  
Susan J. Insley - May 1, 1989 (second three-year term)  
John G. Kramer, D.D.S. - May 1, 1989 (second three-year term)  
Donald B. Shackelford - May 1, 1989 (second three-year term)  
Pete A. Klisares - May 1, 1989 (third three-year term)

Upon motion of Mr. Berry, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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### **Honorary Degree**

#### Background

Elizabeth H. Dole

Elizabeth Dole was sworn in by President Bush as the 20th Secretary of Labor in a ceremony at the Labor Department's headquarters on January 30, 1989.

As a member of the Cabinet, Mrs. Dole serves as the President's chief advisor on labor issues, as well as a key economic policy advisor. She guides a federal agency of nearly 19,000 employees, with a budget of more than \$31 billion.

**Honorary Degree (contd)**

Background (contd)

Elizabeth H. Dole (contd)

The laws enforced by the department range from child labor prohibitions to the security of retiree pensions.

Secretary Dole is responsible for protection of the wages, health and safety, and employment rights of working people; administering job training, unemployment insurance and workers' compensation programs; promoting equal employment opportunity; collecting, analyzing and publishing labor statistics, and strengthening free collective bargaining.

Secretary Dole is determined:

To ensure that American workers are the world's best trained and most highly skilled, placing special emphasis on the disadvantaged;

To develop policies that make work and family complementary;

To establish sound and comprehensive pension and retirement policies;

To see that the American workplace is as safe, as healthy, and as secure as we can make it, and

To encourage management and labor to continue to move beyond confrontation and conflict and to work together on behalf of interests held in common.

As the longest-serving Secretary of Transportation -- from February 1983 until October 1987 -- Elizabeth Dole made safety her highest priority. Thanks to that commitment, and the changes she made at the Department of Transportation, the United States enjoyed the safest years in its history in all three major transportation areas -- rail, air and highway.

Bringing the same commitment to the Labor Department, Mrs. Dole has effectively worked to assure the safety and health of every worker in America -- whether on offshore drilling rigs, in aircraft at 35,000 feet, or in mines miles underground.

Prior to joining President Reagan's Cabinet, Mrs. Dole was Assistant to the President for Public Liaison at the White House. From 1973 until 1979, she served as a member of the Federal Trade Commission. Her public service has also included Presidential appointments as Executive Director of the President's Committee on Consumer Interests and as Deputy Special Assistant to the President for Consumer Affairs.

Mrs. Dole graduated with distinction in political science from Duke University, where she was president of the student government and elected to Phi Beta Kappa. She received her law degree from Harvard Law School and a master's degree in education and government from Harvard University.

Mrs. Dole currently serves as honorary chairman of the Board of Overseers at Duke Comprehensive Cancer Center, and is a member of the Visiting Committee of Harvard University's John F. Kennedy School of Government. She recently received the Humanitarian Award from the National Commission Against Drunk Driving.

**Honorary Degree (contd)**

Background (contd)

Elizabeth H. Dole (contd)

A native of Salisbury, North Carolina, Mrs. Dole was named in 1988 by the Gallup Poll as one of the world's ten most admired women.

**HONORARY DEGREE**

Resolution No. 89-120

Synopsis: The Academic Affairs Committee requested approval to award an honorary Doctor of Laws degree to Elizabeth H. Dole.

WHEREAS pursuant to paragraph (C) of rule 3335-3-03 of the Administrative Code, the President, after consultation with the Steering Committee of the University Senate, recommended to the Board of Trustees awarding of an honorary degree as listed below:

Elizabeth H. Dole

Doctor of Laws

**NOW THEREFORE**

BE IT RESOLVED, That the above honorary degree be awarded in accordance with the recommendation at a time convenient to the University and the recipient.

Upon motion of Mr. Teaford, seconded by Mr. Barone, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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**PERSONNEL ACTIONS**

Resolution No. 89-121

RESOLVED, That the personnel actions as recorded in the Personnel Budget Records of the University since the May 4, 1989 meeting of the Board, including the following Changes in Title, Appointments, Concurrent Appointment, Appointment of Chairpersons of Departments and Division and Directors of Centers, and Reappointment of Chairpersons of Departments and Division and Director of School, Leaves of Absence Without Salary, Leave of Absence Without Salary--Continuation, Professional Improvement Leaves, Professional Improvement Leave--Change of Dates, Professional Improvement Leaves--Cancellations, Promotions/Tenure, Emeritus Title, and Emeritus Title--Cancellation as detailed in the University Budget be approved and the Medical Staff Appointments approved April 27, 1989, by the Hospitals Board be ratified.

Changes in Title

Name:	FREDERICK E. HUTCHINSON
Title:	Acting Vice President for Academic Affairs and Provost
Office:	Academic Affairs
Effective:	July 1, 1989
Present Position:	Vice President and Executive Dean, Agricultural Administration, College of Agriculture

**PERSONNEL ACTIONS (contd)**

Changes in Title (contd)

Name: JAMES E. MEEKS  
Title: Special Assistant to the President (Legal Affairs) and Professor  
Office/College: President's Office/Law  
Effective: Immediately  
Present Position: Acting Special Assistant to the President (Legal Affairs) and Professor, College of Law

Appointments

Name: PAUL E. KAPLAN  
Title: Professor (The Bert C. Wiley Professorship in Physical Medicine and Rehabilitation)  
Department: Physical Medicine and Rehabilitation  
Effective: August 25, 1989  
Salary: \$100,080.00  
Present Position: Professor and Chairman, Department of Physical Medicine and Rehabilitation, University of Missouri-Columbia, and Medical Director, Howard A. Rusk Rehabilitation Center, Columbia, MO

Name: THOMAS L. SPORLEDER  
Title: Professor (The Farm Income Enhancement Endowed Chair in Agricultural Policy, Trade and Marketing)  
Department/Center: Agricultural Economics and Rural Sociology/Ohio Agricultural Research and Development Center  
Effective: June 1, 1989  
Salary: \$86,040.00  
Present Position: Professor, Department of Agricultural Economics, Texas A&M University, College Station, TX

Concurrent Appointment

Name: CHARLES F. BENDER  
Title: Director  
Office: Academic Computing  
Effective: April 4, 1989  
Salary: N/A  
Present Assignment: Director of the Ohio Supercomputer Center and Professor of Chemistry (no change)

Appointment of Chairpersons of Departments and Division and Directors of Centers

July 1, 1988 through June 30, 1989

Division of Mining Engineering

George R. St.Pierre

January 1, 1989 through December 31, 1989

Center for Comparative Studies

Barbara H. Rigney\*

June 2, 1989 meeting, Board of Trustees

### PERSONNEL ACTIONS (contd)

#### Appointment of Chairpersons of Departments and Division and Directors of Centers (contd)

July 1, 1989 through June 30, 1990

Art

Robert Shay

July 1, 1989 through June 30, 1993

Botany  
Zoology

Tod F. Stuessy  
Peter W. Pappas

August 25, 1989 through June 30, 1993

Physical Medicine and Rehabilitation

Paul E. Kaplan

October 1, 1989 through September 30, 1990

Melton Center for Jewish Studies  
Slavic and East European Languages  
and Literatures

Tamar Rudavsky\*  
David F. Robinson\*

October 1, 1989 through September 30, 1993

History

Joseph H. Lynch

\*Acting Chairperson or Director

#### Reappointment of Chairpersons of Departments and Division and Director of School

July 1, 1989 through June 30, 1992

Theatre

Firman H. Brown, Jr.

July 1, 1989 through June 30, 1993

School of Allied Medical Professions  
Chemical Engineering  
Division of Hospital and Health  
Services Administration  
Microbiology  
Physiology  
Psychiatry

Stephen L. Wilson  
Jacques L. Zakin  
Stephen F. Loebs  
John N. Reeve  
Jackie D. Wood  
Henry A. Nasrallah

October 1, 1989 through September 30, 1991

Political Science

Randall B. Ripley

October 1, 1989 through September 30, 1993

Computer and Information Science  
Judaic and Near Eastern Languages  
and Literatures

Mervin E. Muller  
Frederic J. Cadora

### PERSONNEL ACTIONS (contd)

#### Leaves of Absence Without Salary

FRANK E. BLOCK, Assistant Professor, Department of Anesthesiology, effective April 1, 1989, through June 30, 1989, to serve as a consultant at Dtex Instrumentarium in Finland.

JAMES H. HUTCHISON, Assistant Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

#### Leave of Absence Without Salary--Continuation

CHERYL M. GAIMON, Associate Professor, Academic Faculty of Management Sciences, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, for personal reasons.

#### Professional Improvement Leaves

ALBERT L. CLOVIS, Associate Dean and Newton D. Baker--Baker & Hostetler Professor in Law, College of Law, effective Autumn Semester 1989 and Spring Semester 1990.

FRANCIS R. ALLAIRE, Professor, Department of Dairy Science, effective January 1, 1990, through June 30, 1990.

JACK M. BALCER, Professor, Department of History, effective Winter Quarter and Spring Quarter 1990.

NECIP BERME, Professor, Department of Mechanical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

RICHARD N. BOYD, Professor, Departments of Physics and Astronomy, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROBERT S. BRODKEY, Professor, Department of Chemical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ALLAN M. BURKMAN, Professor, Division of Pharmacology, effective September 1, 1989, through July 31, 1990.

REINHART F. BUTTER, Professor, Department of Industrial Design, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

BERNARD L. ERVEN, Professor, Department of Agricultural Economics and Rural Sociology, effective September 1, 1989, through May 31, 1990.

TIMOTHY E. HERON, Professor, Department of Educational Services and Research, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JOHN C. HUNTINGTON, Professor, Department of the History of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROBERT E. JACOBSON, Professor, Department of Agricultural Economics and Rural Sociology, effective September 15, 1989, through June 15, 1990.

CHARLES W. MASSEY, JR., Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

### PERSONNEL ACTIONS (contd)

#### Professional Improvement Leaves (contd)

BORIS S. MITYAGIN, Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JOHN B. NEUHARDT, Professor, Department of Industrial and Systems Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

DONALD L. PALMQUIST, Professor, Department of Dairy Science, effective April 15, 1990, through December 31, 1990.

STEPHEN V. TRACY, Professor, Department of Classics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

THOMAS A. ROMANOWSKI, Professor, Department of Physics, effective Winter Quarter, Spring Quarter, and Autumn Quarter 1990.

GIACOMO A. SANI, Professor, Department of Political Science, effective Summer Quarter and Autumn Quarter 1989, and Winter Quarter 1990.

AVNER D. ASH, Associate Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

WILLIAM A. BAESLACK III, Associate Professor, Department of Welding Engineering, Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

JAMES O. BILLUPS, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ROSEMARY BOLIG, Associate Professor, Department of Family Relations and Human Development, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

ANTHONY F. CAMPAGNA, Associate Professor, Faculty of Management and Human Resources, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SUSAN DALLAS-SWANN, Associate Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

NEIL F. FALKNER, Associate Professor, Department of Mathematics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

LEWIS GREENWALD, Associate Professor, Department of Zoology, effective Winter Quarter and Spring Quarter 1990.

HAROLD S. HIMMELFARM, Associate Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CIRIYAM JAYAPRAKASH, Associate Professor, Department of Physics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SEPPO A. KORPELA, Associate Professor, Department of Mechanical Engineering, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.



### **PERSONNEL ACTIONS (contd)**

#### **Professional Improvement Leaves (contd)**

JANINA C. LATAK, Associate Professor, Faculty of Management and Human Resources, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

MARCIA P. MICELI, Associate Professor, Academic Faculty of Management and Human Resources, effective Winter Quarter and Spring Quarter 1990.

HAIKADY N. NAGARAJA, Associate Professor, Department of Statistics, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

VIRGINIA E. RICHARDSON, Associate Professor, College of Social Work, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

DAVID W. RICHTER, Associate Professor, School of Journalism, effective Winter Quarter and Spring Quarter 1990.

LARRY D. SHINEMAN, Associate Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

VIRGINIA B. WEINHOLD, Associate Professor, Department of Industrial Design, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES E. WILSON, Associate Professor, College of Law, effective Spring Semester 1990.

ELLIN E. CARTER, Assistant Professor, College of English, effective Autumn Quarter 1989.

ALAN R. CROCKETT, Assistant Professor, Department of Art, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

SHIRLEY PALMER, Assistant Professor, Department of Sociology, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

#### **Professional Improvement Leave--Change of Dates**

AMY E. SHUMAN, Associate Professor, Department of English, change leave from Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990, to Autumn Quarter 1990, Winter Quarter and Spring Quarter 1991.

#### **Professional Improvement Leaves--Cancellations**

SHIGERU MIYAGAWA, Associate Professor, Department of East Asian Languages and Literatures, effective Autumn Quarter 1989, Winter Quarter and Spring Quarter 1990.

CHARLES G. S. WILLIAMS, Associate Professor, Department of Romance Languages and Literatures, effective Autumn Quarter 1989 and Winter Quarter 1990.

**PERSONNEL ACTIONS (contd)**

Promotions and Tenure

**COLLEGE OF AGRICULTURE**

PROMOTION TO PROFESSOR with TENURE

Rattan Lal, Agronomy, effective 7/1/89

PROMOTION TO PROFESSOR

David O. Hansen, Agricultural Economics and Rural Sociology, effective 7/1/89

Michael E. Mangino, Food Science and Nutrition, effective 10/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Tom Danneberger, Agronomy, effective 7/1/89

Scott H. Irwin, Agricultural Economics and Rural Sociology, effective 7/1/89

Martin F. Kenney, Agricultural Economics and Rural Sociology, effective 7/1/89

Joy L. Pate, Dairy Science, effective 7/1/89

TENURE

Sylvia A. McCune, Food Science and Nutrition, effective 9/1/90

Sudhir K. Sastry, Agricultural Engineering, effective 9/1/90

Royce B. Thornton, ATI, Animal Industries, effective 7/1/90

Andrew D. Ward, Agricultural Engineering, effective 3/3/91

**COOPERATIVE EXTENSION**

PROMOTION TO ASSOCIATE PROFESSOR

William E. Henderson, effective 7/1/89

Ronald L. Overmyer, effective 7/1/89

William C. Smith, effective 7/1/89

Marilyn Spiegel, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR

Kenneth R. Lafontaine, effective 7/1/89

Sharon L. Mader, effective 7/1/89

Karen S. Perry, effective 7/1/89

Jane C. Warner, effective 7/1/89

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Vicki L. Whitted, effective 7/1/89 and 9/6/90, respectively

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

#### **COOPERATIVE EXTENSION (contd)**

#### **TENURE**

Stephen M. Bratkovich, effective 4/8/90

Dennis W. Hall, effective 6/1/90

## **COLLEGE OF THE ARTS**

### **PROMOTION TO PROFESSOR**

Odette Blum, Dance, effective 10/1/89

David M. Butler, School of Music, effective 10/1/89

### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Edward H. Adelson, School of Music, effective 10/1/89

Patricia J. Flowers, School of Music, effective 10/1/89

Mark D. Fullerton, History of Art, effective 10/1/89

Robert A. Gillespie, School of Music, effective 10/1/89

Richard S. Harned, Art, effective 10/1/89

Deborah A. Horrell, Art, effective 10/1/89

Dennis A. Parker, Theatre, effective 10/1/89

Stephen L. Pentak, Art, effective 10/1/89

### **PROMOTION TO ASSOCIATE PROFESSOR**

Alan R. Crockett, Art, effective 10/1/89

## **COLLEGE OF BIOLOGICAL SCIENCES**

### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Scott Falkenthal, Molecular Genetics, effective 10/1/89

Thomas E. Hetherington, Zoology, effective 10/1/89

Robert E. Page, Entomology, effective 7/1/89

### **PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR**

Edith L. Taylor, Botany, effective 7/1/89

## **COLLEGE OF BUSINESS**

### **PROMOTION TO PROFESSOR**

Glenn W. Milligan, Management Sciences, effective 10/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

#### **COLLEGE OF BUSINESS (contd)**

##### **PROMOTION TO PROFESSOR (contd)**

WanSoo T. Rhee, Management Sciences, effective 10/1/89

David A. Schilling, Management Sciences, effective 10/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Nicholas G. Hall, Management Sciences, effective 10/1/89

Stephen L. Mangum, Management and Human Resources, effective 10/1/89

#### **COLLEGE OF DENTISTRY**

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Stephen E. Feinberg, Oral and Maxillofacial Surgery, effective 7/1/89

John G. Odom, Community Dentistry, effective 7/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR**

Roland P. Pagniano, Restorative and Prosthetic Dentistry, effective 7/1/89

Rickne C. Scheid, Restorative and Prosthetic Dentistry, effective 7/1/89

##### **PROMOTION TO ASSISTANT PROFESSOR**

Hilary A. Soller, Dental Hygiene, effective 7/1/89

##### **PROMOTION TO CLINICAL ASSOCIATE PROFESSOR**

Lee M. Butler, Orthodontics, effective 7/1/89

Dale B. Wade, Orthodontics, effective 7/1/89

Pelton W. Wheeler, Orthodontics, effective 7/1/89

#### **COLLEGE OF EDUCATION**

##### **PROMOTION TO PROFESSOR**

Moon Shao-chuang Chen, Jr., Health, Physical Education & Recreation, effective 10/1/89

Paul Jansma, Health, Physical Education and Recreation, effective 10/1/89

Michael D. Orlansky, Educational Services and Research, effective 10/1/89

Robert J. Tierney, Theory and Practice, effective 10/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Promotions and Tenure (contd)

#### **COLLEGE OF EDUCATION (contd)**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Evelyn B. Freeman, Theory and Practice, Newark, effective 10/1/89

Peter V. Paul, Educational Services and Research, effective 10/1/89

William M. Sherman, Health, Physical Education & Recreation, effective 10/1/89

##### **TENURE**

Betty P. Cleaver, Policy and Leadership, effective 1/1/92

#### **COLLEGE OF ENGINEERING**

##### PROMOTION TO PROFESSOR

William A. Baeslack III, Welding Engineering, effective 10/1/89

William A. Clark, Materials Science, effective 10/1/89

Charles A. Klein, Electrical Engineering, effective 10/1/89

David E. Orin, Electrical Engineering, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Tunc Aldemir, Mechanical Engineering, effective 10/1/89

Stephen E. Bechtel, Engineering Mechanics, effective 10/1/89

James F. Davis, Chemical Engineering, effective 10/1/89

Brian D. Harper, Engineering Mechanics, effective 10/1/89

Barry L. Nelson, Industrial and Systems Engineering, effective 10/1/89

Charles H. Reilly, Industrial and Systems Engineering, effective 10/1/89

John W. Simpson, Landscape Architecture, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR

Shive Chaturvedi, Civil Engineering, effective 10/1/89

##### TENURE

Rama K. Yedavalli, Aeronautical and Astronautical Engineering, effective 10/1/90

#### **COLLEGE OF HOME ECONOMICS**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Rebecca Kantor, Family Relations and Human Development, effective 10/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Promotions and Tenure (contd)

#### **COLLEGE OF HOME ECONOMICS (contd)**

##### TENURE

Kathryn Jakes, Textiles and Clothing, effective 10/1/90

#### **COLLEGE OF HUMANITIES**

##### PROMOTION TO PROFESSOR

Jeremy Cohen, History, effective 10/1/89

Charles E. Gribble, Slavic and East European Languages, effective 10/1/89

Ronald E. Laymon, Philosophy, effective 10/1/89

Williamson Murray, History, effective 10/1/89

James P. Phelan, English, effective 10/1/89

Charles Garfield Singer Williams, Romance Languages, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Mary E. Beckman, Linguistics, effective 10/1/89

Frank T. Coulson, Classics, effective 10/1/89

Gary L. Ebersole, East Asian Languages, effective 10/1/89

Bernd Fischer, German, effective 10/1/89

Duane W. Roller, Classics, Lima Campus, effective 10/1/89

##### TENURE

Irene Ingeborg Masing-Delic, Slavic and East European Languages, effective 10/1/90

#### **COLLEGE OF LAW**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Daniel C.K. Chow, effective 8/16/89

Nancy H. Rogers, effective 8/16/89

#### **UNIVERSITY LIBRARIES**

##### PROMOTION TO PROFESSOR

Thomas F. Heck, effective 7/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR

Hazel B. Benson, effective 7/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Promotions and Tenure (contd)

#### **UNIVERSITY LIBRARIES (contd)**

##### PROMOTION TO ASSISTANT PROFESSOR and TENURE

Nancyanne O'Hanlon, effective 7/1/89 and 12/1/90, respectively

##### TENURE

Susan M. Kroll, Health Sciences Library, effective 5/1/90

#### **COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES**

##### PROMOTION TO PROFESSOR

Avner D. Ash, Mathematics, effective 10/1/89  
Alexander Dynin, Mathematics, effective 10/1/89  
Ulrich Gerlach, Mathematics, effective 10/1/89  
Ciriya Jayaprakash, Physics, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

C. David Andereck, Physics, effective 10/1/89  
Anthony W. Czarnik, Chemistry, effective 10/1/89  
L. Stanley Durkin, Physics, effective 10/1/89  
Tin-Lun Ho, Physics, effective 10/1/89  
R. Sooryakumar, Physics, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR

Syed M. Tariq Rizvi, Mathematics, Lima, effective 10/1/89

##### PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR

Lonnie G. Thompson, Geology and Mineralogy, effective 7/1/89

#### **COLLEGE OF MEDICINE**

##### PROMOTION TO PROFESSOR

Michael R. Grever, Internal Medicine, effective 7/1/89  
Janice K. Kiecolt-Glaser, Psychiatry, effective 7/1/89  
Paul A. Weber, Ophthalmology, effective 7/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

#### **COLLEGE OF MEDICINE (contd)**

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Michael T. Brady, Pediatrics, effective 7/1/89  
Charles G. Brown, Preventive Medicine, effective 7/1/89  
Edward A. Copelan, Internal Medicine, effective 7/1/89  
Paul M. Dorinsky, Internal Medicine, effective 7/1/89  
Lindsey K. Grossman, Pediatrics, effective 7/1/89  
Philip T. Nowicki, Pediatrics, effective 7/1/89  
Kwame Osei, Internal Medicine, effective 7/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR**

Thomas F. DeMaria, Otolaryngology, effective 7/1/89

##### **PROMOTION TO ASSISTANT PROFESSOR and TENURE**

Carol E. Osborn, School of Allied Medical Professions, effective 7/1/89 and 7/18/90, respectively

##### **TENURE**

Kamran Barin, Otolaryngology, effective 4/4/90  
Robert M. DePhilip, Anatomy, effective 7/1/90  
Steven C. Dilsaver, Psychiatry, effective 9/1/90  
Julia F. Guy, Anatomy, effective 10/1/89

#### **COLLEGE OF MEDICINE CLINICALS**

##### **PROMOTION TO CLINICAL ASSOCIATE PROFESSOR**

William J. Athens, Family Medicine, effective 7/1/89  
Roy R. Bontrager, Family Medicine, effective 7/1/89  
Donald K. Bryan, Obstetrics and Gynecology, effective 7/1/89  
Daniel G. Jackson, Otolaryngology, effective 7/1/89  
Jack M. Lomano, Obstetrics and Gynecology, effective 7/1/89  
Thomas S. Main, Otolaryngology, effective 7/1/89  
Delphis C. Richardson, Pediatrics, effective 7/1/89  
Janak Wadwa, Pediatrics, effective 7/1/89  
Mary Jo Welker, Family Medicine, effective 7/1/89

##### **PROMOTION TO CLINICAL ASSISTANT PROFESSOR**

James J. Barr, Family Medicine, effective 7/1/89  
Dennis M. Doody, Pediatrics, effective 7/1/89



June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

#### **COLLEGE OF BUSINESS (contd)**

##### **PROMOTION TO PROFESSOR (contd)**

WanSoo T. Rhee, Management Sciences, effective 10/1/89

David A. Schilling, Management Sciences, effective 10/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Nicholas G. Hall, Management Sciences, effective 10/1/89

Stephen L. Mangum, Management and Human Resources, effective 10/1/89

#### **COLLEGE OF DENTISTRY**

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Stephen E. Feinberg, Oral and Maxillofacial Surgery, effective 7/1/89

John G. Odom, Community Dentistry, effective 7/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR**

Roland P. Pagniano, Restorative and Prosthetic Dentistry, effective 7/1/89

Rickne C. Scheid, Restorative and Prosthetic Dentistry, effective 7/1/89

##### **PROMOTION TO ASSISTANT PROFESSOR**

Hilary A. Soller, Dental Hygiene, effective 7/1/89

##### **PROMOTION TO CLINICAL ASSOCIATE PROFESSOR**

Lee M. Butler, Orthodontics, effective 7/1/89

Dale B. Wade, Orthodontics, effective 7/1/89

Pelton W. Wheeler, Orthodontics, effective 7/1/89

#### **COLLEGE OF EDUCATION**

##### **PROMOTION TO PROFESSOR**

Moon Shao-chuang Chen, Jr., Health, Physical Education & Recreation, effective 10/1/89

Paul Jansma, Health, Physical Education and Recreation, effective 10/1/89

Michael D. Orlansky, Educational Services and Research, effective 10/1/89

Robert J. Tierney, Theory and Practice, effective 10/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Promotions and Tenure (contd)

#### **COLLEGE OF EDUCATION (contd)**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Evelyn B. Freeman, Theory and Practice, Newark, effective 10/1/89  
Peter V. Paul, Educational Services and Research, effective 10/1/89  
William M. Sherman, Health, Physical Education & Recreation, effective 10/1/89

##### TENURE

Betty P. Cleaver, Policy and Leadership, effective 1/1/92

#### **COLLEGE OF ENGINEERING**

##### PROMOTION TO PROFESSOR

William A. Baeslack III, Welding Engineering, effective 10/1/89  
William A. Clark, Materials Science, effective 10/1/89  
Charles A. Klein, Electrical Engineering, effective 10/1/89  
David E. Orin, Electrical Engineering, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Tunc Aldemir, Mechanical Engineering, effective 10/1/89  
Stephen E. Bechtel, Engineering Mechanics, effective 10/1/89  
James F. Davis, Chemical Engineering, effective 10/1/89  
Brian D. Harper, Engineering Mechanics, effective 10/1/89  
Barry L. Nelson, Industrial and Systems Engineering, effective 10/1/89  
Charles H. Reilly, Industrial and Systems Engineering, effective 10/1/89  
John W. Simpson, Landscape Architecture, effective 10/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR

Shive Chaturvedi, Civil Engineering, effective 10/1/89

##### TENURE

Rama K. Yedavalli, Aeronautical and Astronautical Engineering, effective 10/1/90

#### **COLLEGE OF HOME ECONOMICS**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Rebecca Kantor, Family Relations and Human Development, effective 10/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

#### **COLLEGE OF HOME ECONOMICS (contd)**

##### **TENURE**

Kathryn Jakes, Textiles and Clothing, effective 10/1/90

#### **COLLEGE OF HUMANITIES**

##### **PROMOTION TO PROFESSOR**

Jeremy Cohen, History, effective 10/1/89

Charles E. Gribble, Slavic and East European Languages, effective 10/1/89

Ronald E. Laymon, Philosophy, effective 10/1/89

Williamson Murray, History, effective 10/1/89

James P. Phelan, English, effective 10/1/89

Charles Garfield Singer Williams, Romance Languages, effective 10/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Mary E. Beckman, Linguistics, effective 10/1/89

Frank T. Coulson, Classics, effective 10/1/89

Gary L. Ebersole, East Asian Languages, effective 10/1/89

Bernd Fischer, German, effective 10/1/89

Duane W. Roller, Classics, Lima Campus, effective 10/1/89

##### **TENURE**

Irene Ingeborg Masing-Delic, Slavic and East European Languages, effective 10/1/90

#### **COLLEGE OF LAW**

##### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

Daniel C.K. Chow, effective 8/16/89

Nancy H. Rogers, effective 8/16/89

#### **UNIVERSITY LIBRARIES**

##### **PROMOTION TO PROFESSOR**

Thomas F. Heck, effective 7/1/89

##### **PROMOTION TO ASSOCIATE PROFESSOR**

Hazel B. Benson, effective 7/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### **Promotions and Tenure (contd)**

## **UNIVERSITY LIBRARIES (contd)**

### **PROMOTION TO ASSISTANT PROFESSOR and TENURE**

Nancyanne O'Hanlon, effective 7/1/89 and 12/1/90, respectively

### **TENURE**

Susan M. Kroll, Health Sciences Library, effective 5/1/90

## **COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES**

### **PROMOTION TO PROFESSOR**

Avner D. Ash, Mathematics, effective 10/1/89

Alexander Dynin, Mathematics, effective 10/1/89

Ulrich Gerlach, Mathematics, effective 10/1/89

Ciriyam Jayaprakash, Physics, effective 10/1/89

### **PROMOTION TO ASSOCIATE PROFESSOR with TENURE**

C. David Andereck, Physics, effective 10/1/89

Anthony W. Czarnik, Chemistry, effective 10/1/89

L. Stanley Durkin, Physics, effective 10/1/89

Tin-Lun Ho, Physics, effective 10/1/89

R. Sooryakumar, Physics, effective 10/1/89

### **PROMOTION TO ASSOCIATE PROFESSOR**

Syed M. Tariq Rizvi, Mathematics, Lima, effective 10/1/89

### **PROMOTION TO ADJUNCT ASSOCIATE PROFESSOR**

Lonnie G. Thompson, Geology and Mineralogy, effective 7/1/89

## **COLLEGE OF MEDICINE**

### **PROMOTION TO PROFESSOR**

Michael R. Grever, Internal Medicine, effective 7/1/89

Janice K. Kiecolt-Glaser, Psychiatry, effective 7/1/89

Paul A. Weber, Ophthalmology, effective 7/1/89

June 2, 1989 meeting, Board of Trustees

## **PERSONNEL ACTIONS (contd)**

### Promotions and Tenure (contd)

#### **COLLEGE OF MEDICINE (contd)**

##### PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Michael T. Brady, Pediatrics, effective 7/1/89  
Charles G. Brown, Preventive Medicine, effective 7/1/89  
Edward A. Copelan, Internal Medicine, effective 7/1/89  
Paul M. Dorinsky, Internal Medicine, effective 7/1/89  
Lindsey K. Grossman, Pediatrics, effective 7/1/89  
Philip T. Nowicki, Pediatrics, effective 7/1/89  
Kwame Osei, Internal Medicine, effective 7/1/89

##### PROMOTION TO ASSOCIATE PROFESSOR

Thomas F. DeMaria, Otolaryngology, effective 7/1/89

##### PROMOTION TO ASSISTANT PROFESSOR and TENURE

Carol E. Osborn, School of Allied Medical Professions, effective 7/1/89 and 7/18/90, respectively

##### TENURE

Kamran Barin, Otolaryngology, effective 4/4/90  
Robert M. DePhilip, Anatomy, effective 7/1/90  
Steven C. Dilsaver, Psychiatry, effective 9/1/90  
Julia F. Guy, Anatomy, effective 10/1/89

#### **COLLEGE OF MEDICINE CLINICALS**

##### PROMOTION TO CLINICAL ASSOCIATE PROFESSOR

William J. Athens, Family Medicine, effective 7/1/89  
Roy R. Bontrager, Family Medicine, effective 7/1/89  
Donald K. Bryan, Obstetrics and Gynecology, effective 7/1/89  
Daniel G. Jackson, Otolaryngology, effective 7/1/89  
Jack M. Lomano, Obstetrics and Gynecology, effective 7/1/89  
Thomas S. Main, Otolaryngology, effective 7/1/89  
Delphis C. Richardson, Pediatrics, effective 7/1/89  
Janak Wadwa, Pediatrics, effective 7/1/89  
Mary Jo Welker, Family Medicine, effective 7/1/89

##### PROMOTION TO CLINICAL ASSISTANT PROFESSOR

James J. Barr, Family Medicine, effective 7/1/89  
Dennis M. Doody, Pediatrics, effective 7/1/89

**PERSONNEL ACTIONS (contd)**

Promotions and Tenure (contd)

**COLLEGE OF MEDICINE  
CLINICALS (contd)**

PROMOTION TO CLINICAL ASSISTANT PROFESSOR (contd)

Gary P. Erdy, Family Medicine, effective 7/1/89  
John R. Kean, Surgery, effective 7/1/89  
Steven H. Lichtblau, Internal Medicine, effective 7/1/89

**COLLEGE OF MEDICINE  
REGULAR CLINICAL FACULTY**

PROMOTION TO ASSOCIATE PROFESSOR OF CLINICAL MEDICINE

Julio O. Apolo, Pediatrics, effective 7/1/89  
Daniel L. Coury, Pediatrics, effective 7/1/89  
Neil J. Grossman, Pediatrics, effective 7/1/89  
Seth M. Kantor, Internal Medicine, effective 7/1/89  
Herman A. Tolbert, Psychiatry, effective 7/1/89

**COLLEGE OF MEDICINE  
REGULAR CLINICAL FACULTY**

REAPPOINTMENTS

ASSOCIATE PROFESSOR

Julio O. Apolo, Pediatrics, effective 7/1/89  
Carl Boesel, Pathology, effective 7/1/89  
Robert T. Brown, Pediatrics, effective 7/1/90  
William Buesching, Pathology, effective 7/1/90  
Bruce A. Jones, Psychiatry, effective 7/1/89  
Seth M. Kantor, Internal Medicine, effective 10/1/90  
Joel Lucas, Pathology, effective 7/1/90  
Martha Walters, Pathology, effective 7/1/90

ASSISTANT PROFESSOR

Rosalind J. Bobulski, Physical Medicine, effective 7/1/89  
Albert C. Clairmont, Physical Medicine, effective 7/1/90  
Bhagwandas Gupta, Anesthesiology, effective 12/17/89  
N. Paul Hudson, Internal Medicine, effective 6/1/90  
Hisako Koizumi, Psychiatry, effective 1/1/90  
Rao Lingam, Anesthesiology, effective 12/17/89  
Donald F. Middendorf, Internal Medicine, effective 9/1/89  
Randy R. Miller, Pediatrics, effective 7/1/90  
Richard N. Nelson, Preventive Medicine, effective 7/1/89  
Evelyn E. Pintz, Internal Medicine, effective 7/1/90

**PERSONNEL ACTIONS (contd)**

Promotions and Tenure (contd)

**COLLEGE OF MEDICINE  
REGULAR CLINICAL FACULTY (contd)**

REAPPOINTMENTS (contd)

ASSISTANT PROFESSOR (contd)

Robert J. Ragosin, Radiology, effective 7/1/89  
David E. Roberts, Preventive Medicine, effective 1/1/90  
James M. Ryan, Internal Medicine, effective 7/1/90  
Ronald Siegle, Otolaryngology, effective 7/1/89

**COLLEGE OF OPTOMETRY**

PROMOTION TO ASSISTANT PROFESSOR and TENURE

Joseph T. Barr, effective 7/1/89 and 7/11/90, respectively

**COLLEGE OF PHARMACY**

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Jessie Lai-Sim Au, Pharmaceutics and Pharmaceutical Chemistry, effective 7/1/89

PROMOTION TO CLINICAL PROFESSOR

Rinaldo A. Brusadin, Pharmaceutical Administration, effective 7/1/89

PROMOTION TO CLINICAL ASSISTANT PROFESSOR

Karen N. Hale, Pharmacy Practice, effective 7/1/89  
Douglas J. Scheckelhoff, Pharmaceutical Administration, effective 7/1/89  
Jerry Siegel, Pharmacy Practice, effective 7/1/89  
David A. Smeenk, Pharmaceutical Administration, effective 7/1/89

**COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES**

PROMOTION TO PROFESSOR

Richard P. Gunther, Political Science, effective 10/1/89  
Terry F. Pettijohn, Psychology, Marion, effective 10/1/89  
Paul W. Sciuilli, Anthropology, effective 10/1/89  
Sara L. Staats, Psychology, Newark, effective 10/1/89  
Richard H. Steckel, Economics, effective 10/1/89  
Gifford Weary, Psychology, effective 10/1/89

**PERSONNEL ACTIONS (contd)**

Promotions and Tenure (contd)

**COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES (contd)**

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

John P. Bruno, Psychology, effective 10/1/89  
Stephen G. Cecchetti, Economics, effective 10/1/89  
Eric S. Fredin, School of Journalism, effective 10/1/89  
Harvey T. Hubbard, School of Journalism, effective 10/1/89  
Randall W. Jackson, Geography, effective 10/1/89  
Nelson C. Mark, Economics, effective 10/1/89  
Raymond Montemayor, Psychology, effective 10/1/89  
Ruth D. Peterson, Sociology, effective 10/1/89  
Patricia B. Reagan, Economics, effective 10/1/89  
Michael D. Trudeau, Speech and Hearing Science, effective 10/1/89  
Michael E. Wallace, Sociology, effective 10/1/89

TENURE

Michael G. Aman, Psychology, effective 7/1/89  
Johannes Rojahn, Psychology, effective 7/1/89

**COLLEGE OF SOCIAL WORK**

TENURE

Richard J. First, effective 4/1/90

**COLLEGE OF VETERINARY MEDICINE**

PROMOTION TO PROFESSOR

John D. Bonagura, Clinical Sciences, effective 7/1/89  
Dennis J. Chew, Clinical Sciences, effective 7/1/89  
Marvin L. Olmstead, Clinical Sciences, effective 7/1/89  
Robert G. Sherding, Clinical Sciences, effective 7/1/89

PROMOTION TO ASSOCIATE PROFESSOR with TENURE

Stephen J. Birchard, Clinical Sciences, effective 7/1/89  
Charles L. Brooks, Pathobiology, effective 7/1/89  
Lynne E. Olson, Physiology and Pharmacology, effective 7/1/89

Emeritus Title

DEAN A. RAMSEY, Office of Physical Facilities, with the title Assistant Vice President Emeritus for Physical Facilities, effective June 1, 1989.



**PERSONNEL ACTIONS (contd)**

Emeritus Title--Cancellation

INEZ CARDOZO-FREEMAN, Center for Comparative Studies in the Humanities (Newark Campus), with the title Associate Professor Emeritus, effective January 1, 1989.

Medical Staff--Appointments

MADELINE J. ANDREWS, M.D., Courtesy Staff, Anesthesiology

EILEEN F. KASTEN, M.D., Limited Staff, Pediatrics

ROBERT F. GRIFFITH, Attending Staff, Emergency Medicine

Upon motion of Amb. Wolf, seconded by Mr. Teafor, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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Mr. Teafor:

Mr. Chairman, I would like to read an expression of appreciation for Provost and Vice President Myles Brand:

**EXPRESSION OF APPRECIATION**

Resolution No. 89-122

WHEREAS Professor Myles Brand has enhanced the University in many ways during his tenure, including the initiation of a comprehensive curriculum review and the development of an affirmative action plan; and

WHEREAS Professor Brand's leadership as chief academic officer of The Ohio State University has been noteworthy; and

WHEREAS Professor Brand's energy and enthusiasm for The Ohio State University's missions has been exemplary; and

WHEREAS the University of Oregon has recognized Dr. Brand's leadership ability and superb talents by naming him as its President:

NOW THEREFORE

BE IT RESOLVED, That the Board of Trustees expresses its sincere appreciation to Professor Brand for his splendid service to The Ohio State University and extends to him and his spouse, Professor Margaret Z. Brand, all good wishes for success and happiness in his new position.

Upon motion of Mr. Teafor, seconded by Ms. Casto, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Dr. Brand:

Thank you, this comes as a surprise. Joel, this will occupy a place of honor on my wall and in my heart. Thank you all.

**EXPRESSION OF APPRECIATION (contd)**

Mr. Berry:

It is very much deserved.

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Mrs. Bowser:

I would like to present a resolution of memoriam for Christine Yerges Conaway who served as Dean of Women at Ohio State University for twenty-three years. She was a native of Columbus and she received her bachelors and masters here. She was certainly a good leader and role model for women in those twenty-three years that she was here. I would like to present that resolution in memoriam.

Mr. Teaford:

I would like to say that Mrs. Bowser is one of the products of that leadership.

**RESOLUTION IN MEMORIAM**

Resolution No. 89-123

Synopsis: The Academic Affairs Committee recommended the approval of the following Resolution in Memoriam.

RESOLVED, That the Board adopt the following Resolution in Memoriam and that the President be requested to convey a copy to the family of the deceased.

Christine Y. Conaway

The Board of Trustees of The Ohio State University expresses its sorrow upon the death on April 23, 1989, of Christine Yerges Conaway, Dean of Women Emeritus in the Office of Student Affairs.

Nationally recognized as a leader in the field of student personnel administration, Christine Y. Conaway served as Dean of Women at The Ohio State University for twenty-three years, from 1944 until her retirement in 1967.

A native of Columbus, Ohio, born November 18, 1901, Mrs. Conaway received her Bachelor of Arts degree in 1923 and her Master of Arts degree in 1942 from The Ohio State University. She was awarded the honorary degree, Doctor of Humane Letters, from Otterbein College in 1957. In 1968 she was presented The Ohio State University Distinguished Service Award and in 1977 the residence hall, Conaway House, was named in her honor. As an undergraduate, she was president of the Women's Self Government Association and of her sorority, Pi Beta Phi, and was a member of the national honor society, Mortar Board.

After her husband's death in 1937, Mrs. Conaway returned to The Ohio State University where she served from 1937 to 1941 as assistant to the dean of the College of Arts and Sciences and from 1941 to 1944 as acting secretary of that college. In February 1944, Mrs. Conaway was named Dean of Women.

## **RESOLUTION IN MEMORIAM (contd)**

Christine Y. Conaway (contd)

She served as vice president of the National Association of Women Deans and Counselors, executive committee member of the American College Personnel Association and president of the National Conference on College Fraternities and Sororities.

In recognition of her exemplary leadership to the student personnel profession and her prominent role in the development and the nurturing of undergraduate and graduate programs for the career advancement of women, the national honor society Alpha Lambda Delta established a fellowship in her honor. An Ohio State University Mortar Board Scholarship is also named for her. The Christine Y. Conaway Woman of Achievement in Education Award is granted annually by the YWCA in recognition of her many contributions to education and to the Columbus community.

The honor societies Theta Sigma Phi, Delta Kappa Gamma, Phi Delta Gamma, Chimes and Sphinx also elected her to membership. She was listed in Who's Who in America and Who's Who in American Women.

Christine Conaway will be remembered as a highly respected professional person in the academic world and a courageous lady who inspired others to the highest level of grace, dignity and quality of life.

On behalf of the University community, the Board of Trustees expresses to the family of Mrs. Conaway its deepest sympathy. It was directed that this resolution be inscribed in the minutes of the Board of Trustees and that a copy be tendered to the family as an expression of the Board's realization of the loss that the family, the University and her many friends and associates have sustained.

Upon motion of Mrs. Bowser, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

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## **STUDENT AFFAIRS COMMITTEE REPORT**

Mr. Barone:

Thank you, Mr. Chairman. The Student Affairs Committee met this morning and we were given a talk by Dean Richard Hollingsworth who was introduced by Dr. Russell Spillman. Dean Hollingsworth gave an exceptionally good report explaining the overview the Office of Student Life on the Ohio State campus, what the basic purposes of the school are, and what Ohio State means to each student. The realization that when a student comes to Ohio State he is pretty well matured and pretty well convinced in his beliefs, his moral principals, and his habits. To overcome some of these things, Ohio State has someone to assist them if they want to get that assistance. For example, we have freshmen student counselors, counselors throughout the University, assistance in financial matters, with living conditions. I think it should be brought out at this time; and the Dean brought out -- that 80 percent of the students live off campus. In itself, it can create quite a difficult problem.

We also discussed the financial situation and the financial conditions of these students. It was Dean Hollingsworth's opinion, when the committee asked him point blank, if they expected a raise in tuition. The answer was in the affirmative, which

June 2, 1989 meeting, Board of Trustees

### STUDENT AFFAIRS COMMITTEE (contd)

Mr. Barone: (contd)

surprised me. The students felt that if they wanted a good education, they have to pay for it even when the tuition goes up. The merits of the school, the teaching conditions of the school benefit that student.

I especially wanted to know how many black students are attending Ohio State University. I was told anywhere from 2,500 to 5,000-6,000.

Mr. Teaford:

I never realized there were so many.

President Jennings:

It is about 2,500 or more.

Mr. Barone:

Well, that is what Russ thought. Russ thought there was a little more. The Dean thought that there were 2,500. I think it is very necessary, and Dean Hollingsworth thought it very necessary, to know the number of black students and to make every effort to get more black students into the University. But also, keep in mind, that the number of black students determines a lot of the other factors in teaching and everything that goes with that.

We also brought out the fact that minorities services are almost full. I feel that Ohio State University does everything possible to help each student that attends this University. It is there, but it is not spoon-fed. I mean you have to go out and get it. I think that ends my report at this time. Are there any questions on this report? I had the two Student Trustees with me. Do you have any questions or would you like to make any comments? I would welcome any comments of the Dean as well. Thank you.

If there are no questions I would like to move on to the student government leaders' reports. I would like to hear from Steve Dibert, President of the Interprofessional Council.

Mr. Steve Sloan:

Hi, once again I am not Steve Dibert. I am Steve Sloan. Mr. Dibert could not be here. Once again he is on a rotation. He is now on a new rotation, he is doing internal medicine and just couldn't escape the hospital. He asked me to take his place today despite the fact that he read the copy of the last speech I gave. I also read a copy of my last speech and I think the editors did a great job being able to convert most of my statements into complete sentences. I think today's speech should be a little easier for them. It is going to be shorter.

The last time I spoke to you I told you about what the IPC had been doing during the school year -- some of our successes, some of the things we have been working on, and are still working on, but I didn't tell you about our failures. I would like to update the Board on one of those topics, and that is the bookstore. The IPC wishes to acknowledge and thank Mr. Jackson for his assistance. We now have much more

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Sloan: (contd)

information than we did before. We feel that with this information we will be able to communicate to our constituents exactly what the policies are that the bookstore uses to set their prices for our books. We are very happy to have that information.

For the past two months the IPC has been quite busy with administrative details. New representatives were selected from each of the professional schools and new officers were elected. I am happy to say that Mr. Dibert will be staying on as President and that I was elected to be Vice President. In addition, applications were sent to all professional schools for the various positions on the committees and councils that professional students can sit on. We received back a very strong group of applicants and we filled all those positions. We are very happy with that. We think that next year we will be much more active in each of those areas. This year we had some people who were quite active and some students who weren't as active as we would have liked.

Finally, I would just like to say that next year we are hoping to continue our hard work and increase the number of activities that we are involved in. We look forward to working with the new undergraduate and graduate student governments, the administration, and, of course, you, the Board of Trustees. Thank you, very much.

Mr. Barone:

I would like to call upon David Straub -- Undergraduate Student Government.

Mr. David Straub:

My name is David Straub and I am the President of the Undergraduate Student Government. Members of the Board, President Jennings, special guests, good afternoon. We have just made a transition into the new administration. I was sworn into office on May 17. We have done some new things, and I would like to say that I believe we have had a smooth transition with the previous administration. As of last night, 7:50 p.m., we made our final appointment rounding out approximately a total of 80 appointments. This was done and we had an orientation with students last evening.

The issues we discussed last evening are some of the issues that we are going to focus on in this upcoming year. My report today is going to give you some of the direction of student government and some of the areas we would like to cover that are issues of major concerns to students. One of the first things that we are going to do so that we know what areas are of major concern to students, is do a student research program to research what the students needs, wants, and desires are. One of approximately seven major concerns to the students in our administration is affirmative action. We are concerned with the recruitment and retention of minority students.

A student political action committee will also be formed in this upcoming year to have students more active in the political process so the scare of tuition increases won't be so dramatic in future years. Also, we hope to be active in other political issues at the state-level. We don't know all of the details right now, but this political action committee should help students become more active in the political arena.

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Straub: (contd)

Teacher evaluations is another concern of ours. We would like students -- we see them as consumers, so we would like the consumers to know what product they are receiving before they purchase it. So that is how we look at that issue. We would like to see some steps move forward in that area.

Campus safety is a major concern in our administration and we will work hard to make campus a safe place for students.

Campus environment is a new position that we have created this year to deal with some of the environmental issues not only on campus but outside of campus. This position will deal with things such as the tree issue on High Street and try and make students more supportive of cleanliness and neatness on campus.

Another issue that you have heard about and is not a new one to anyone here, is traffic and parking. We have a position to deal with that growing problem.

Those are some of the things that we are going to deal with in this upcoming year. And we have students that are highly motivated to deal with these issues. I appreciate your time and have a good afternoon.

Mr. Barone:

Thank you, Mr. Straub. Any questions? Roger Musgrave--

Mr. Roger Musgrave:

Good afternoon. This might be the first time you have seen all of my face, but it is the last time you will have to see it.

Mr. Teaford:

You've shaved your beard off, that is why Mr. Barone couldn't find you back there.

Mr. Barone:

I kept looking. I even put my glasses on.

Mr. Musgrave:

For good or bad, it is your last time you will be seeing me make one of these reports. As I reported, we just held our elections last month. I would like to introduce you to my successor to begin my report. Luke Evans will be the President of the Council of Graduate Students next year. He served this year as our Vice President. Luke earned a B.B.A. in Accounting from the University of Toledo, an M.A. in Business Administration Education here at Ohio State, and he is presently a Ph.D. candidate in Educational Policy and Leadership. He has represented us on the University Senate; the Council of Research and Graduate Studies; at the National Association of Graduate and Professional Students; and in a variety of other ways. He is very well prepared and experienced to serve as our spokesman next year.

## STUDENT AFFAIRS COMMITTEE REPORT (contd)

Mr. Musgrave: (contd)

Our Vice President next year will be Benetta Lucius. She served as our Secretary this year. Benetta holds a B.A. in Elementary Education from Austin Peay State University in Tennessee, and an M.A. in the same field from Ohio State. She is presently working on a Ph.D. in Educational Policy and Leadership. So, I guess it kind of makes sense to have two folks from Ed P&L running our group. She has been active with CGS ever since her very first quarter of enrollment here. She coordinated the 1987 CGS Vita Writing Workshop; represented us among the National Association of Graduate and Professional Students; and we feel very fortunate to have her as another of our spokespersons.

We think you will definitely find them both a pleasure to work with, but we also hope that you will find them a royal pain in the neck when CGS feels that grad students' interests aren't being properly represented.

To update you -- it appears now that there will definitely be an alternate health insurance plan offered to graduate students nation-wide by the National Association of Graduate Students. We don't believe, in the short run at least, that Ohio State's plan will feel much of an effect from it. The premium will be significantly higher than our present plan with Central Benefits, roughly \$145.00 a quarter for a single student. The trade-off is that some of the benefits are significantly higher. The major medical end of it will be \$250,000 as opposed to our \$100,000. We are just happy that folks have a choice. In essence it is the same plan that is presently available to law students through the American Bar Association Student Division.

I would like to briefly recap the year as CGS saw it, and to give you some of our hopes for the next year. First, we hope that continued attention will be directed to the financial status of graduate students. It seems apparent to us that we have actually slipped a bit backward this year. A 4 percent increase was granted to GA's and that has to be compared to the 7 percent increase we will face in graduate housing; a double digit increase in health insurance costs; an increase we can't quote in books and lab fees, but we are rather doubtful that the publishers will hold down to 4 percent their cost increases, because that is all we've got; and the list goes on. Then, if our stipend is to be argued to be comparably reasonable, we hope that it is recognized that that level can erode pretty quickly -- year in and year out. The rate of increase in the stipends falls that far behind the rate of increase in the costs folks have to bear.

We also hope that additional attention will be focused upon graduate students' need for more and better child care services. We hope that the Graduate School doesn't become primarily a reserve of "DINKS" (Double Income No Kids) and single people. We continue to be convinced that females that have children and are considering coming back to graduate school are disproportionately effected by not having more child care available to them.

We also hope our fellowship programs can be strengthened and expanded. There is little question in our minds that such improvements are mandatory if our graduate programs are to become stronger.

We hope that facilities also will continue to receive the attention that they deserve. It is hard to imagine a research library worthy of the name that has one carrel for 100

**STUDENT AFFAIRS COMMITTEE REPORT (contd)**

Mr. Musgrave: (contd)

or so people that could use one. And, yet that is what we have. It is hard to imagine teachers counseling their students and working with them when they have twenty TA's scattered about 120 X 30 foot room, all working in an open environment. And, yet that is what we have in some places. And to go to parking, it is tough to imagine asking those who do so much of our teaching to spend 22 hours a quarter walking back and forth to their car. And yet, that is what you have with only a 12 minute walk out to a "B" lot from your office or classroom.

Fortunately the good here far out weighs the problems. We applaud the University's continuing initiatives in research and teaching programs. We would like to see more, but we very much appreciate increased support for some graduate programs on campus. We are very happy to see the attraction of world-class scholars and researchers to our graduate faculty. And we are very happy to see the increasingly strong national reputation the University is developing.

We were obviously ecstatic about the resolution of the issue of the taxation of graduate student fee authorizations. And we saw evidence there how wonderfully responsive the University can be and even the City government, in that the University helped us to get our City tax refunds back a lot more quickly than mandatory. We very much appreciated the support received for the Graduate Student Orientation Program; the Graduate Research Forum; and some of the other events we have put on. We are pleased with the new Patents and Copyright Policy that has been accepted which explicitly recognizes the contributions of graduate students. I'll stop there. There are a number of other good things that have gone on.

We are very proud of this institution in most cases. For all of us in the Council our degrees will bear the name of the institution for the rest of our lives, so we hope that you continue to recognize that we, too, want what we see as best for the University every time we come here with suggestions, complaints, and/or demands. Thank you for appearing to be always willing to hear our arguments and to act on them when we've convinced you.

I will focus a bit more on my own research and academic goals this year, but my life will be a bit richer for those of you who have spent your time working with me. And I will always treasure the memories I've gotten. Thank you.

Mr. Barone:

Roger, at this time the Board would like to present you with an Expression of Appreciation:

**EXPRESSION OF APPRECIATION**

Resolution No. 89-124

WHEREAS Roger Musgrave has served as President of the Council of Graduate Students during the past year; and

WHEREAS he has carried out his assignment in an exemplary manner; and



### **EXPRESSION OF APPRECIATION (contd)**

WHEREAS his leadership in representing the interest of students has been positive in nature as has been his communication with both the Board of Trustees and the Administration:

NOW THEREFORE

BE IT RESOLVED, That this Board expresses to Roger Musgrave its sincere appreciation and gratitude for a job well done and conveys to him its best wishes for success in the future.

Upon motion of Mr. Barone, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

Mr. Musgrave:

Thank you.

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### **AGRICULTURAL AFFAIRS COMMITTEE**

Mrs. Bowser:

The Agricultural Affairs Committee met this morning with the Vice Chair, Steven Maurer from the Department of Agriculture with us. We heard from Dr. Fred Miller who chaired the Drought Task Force. It is sort of ironic that we talked about a drought this morning, because Ohio agriculture is now suffering from the opposite effect which is too much rain. He shared with us how that task force was created and how proud they were of a 24-hour turnaround in information. Questions were called in and within 24 hours they were answered with information the University was able to provide.

They had three satellite TV specials. He said that the Cooperative Extension agents learned to use the fax machines quite well, because that was one of the ways they got the information back and forth. They were sort of surprised to learn that they also had to respond to many questions from the media on different aspects of the drought such as water rights and all of the environmental concerns that everyone had last year. He sort of pulled it all together and felt that the University had learned a lot from the drought. It was a timely message because the University has already done one satellite TV production on too much moisture.

And speaking for Ohio Agriculture, I can really say that you talk a lot about Cooperative Extension and Ohio State, but when you are really having to make tough decisions it is wonderful to have the data to back up those decisions.

So, that was our report for this morning. If there are any questions, I will entertain them. If not, that completes my report.

(See Appendix LVII for complete text of the Drought Task Force Minutes, April 7, 1989, page 1397.)

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June 2, 1989 meeting, Board of Trustees

## FISCAL AFFAIRS COMMITTEE

Mr. Kessler:

The committee is recommending the following resolutions for approval:

### REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS

Resolution No. 89-125

Synopsis: The Fiscal Affairs Committee recommended the approval of the report of research contracts, grants, and gifts and the summary for April 1989.

WHEREAS monies are solicited and received on behalf of the University from governmental, industrial, other agencies, alumni, and various individuals in support of research, instructional activities, and service; and

WHEREAS such gifts and grants are received through The Ohio State University Research Foundation, the Engineering Experiment Station of The Ohio State University, The Ohio State University Development Fund, and The Ohio State University Foundation:

NOW THEREFORE

BE IT RESOLVED, That the research agreement between The Ohio State University and The Ohio State University Research Foundation for the contracts and grants reported herein, and the acceptance of the reports from the Engineering Experiment Station, The Ohio State University, and The Ohio State University Foundation during the month of April 1989 be approved.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous voice vote.

### SUMMARY FOR APRIL 1989

#### Background

Source	No. of Projects	Support Level
The Ohio State University Research Foundation	100	\$6,069,241.72
Engineering Experiment Station	69	\$ 423,826.00
Total	169	\$6,493,067.72

The Ohio State University Development Fund

Establishment of Named Funds

The H. P. Wolfe Chair in Accounting Fund (Establish an endowed chair)	\$ 750,000.00
The Health Management Lecture Fund (Lectureship series)	\$ 21,000.00

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**SUMMARY FOR APRIL 1989 (contd)**

Background (contd)

**Establishment of Named Funds (contd)**

The Carolyn Engel Luebeck Memorial Endowment Fund (Department of German -- lectures)	\$ 20,125.00
D. Ransom Whitney Endowed Fund in Statistics (Scholarships, fellowships, distinguished visitors and faculty development)	\$ 6,426.00
The Thomas E. and Jean D. Powers Award Fund (An annual award to deserving junior faculty members and graduate students - Department of Statistics)	\$ 6,148.00
Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund (Fund a graduate fellowship)	\$ 5,010.00

**Change in Description of Named Fund**

The Lawrence D. Jones Scholarship Fund

**Change in Name and Description of Named Funds**

From:	The Torrence A. Makley Fund
To:	The Torrence A. Makley Research Professorship
From:	The Bert C. Wiley, M.D., Professorship in Physical Medicine and Rehabilitation Fund
To:	The Bert C. Wiley, M.D., Endowed Professorship in Physical Medicine and Rehabilitation
From:	The Farm Income Enhancement Program Fund
To:	The Farm Income Enhancement Endowed Chair in Agricultural Policy, Trade and Marketing

The Ohio State University Foundation

**Approval of Description and Establishment of Fund**

William H. Havener, M.D., Chair in Ophthalmology Research Fund

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION**

Report - April 1989

**Federal Research Contracts/Grants**

\$442,180.00 - Department of Defense, Defense Advanced Research Projects Agency, Arlington, Virginia, Development of an Advanced Ground Mobility System (AGMS), Department of Mechanical Engineering (K. J. Waldron) and Department of Electrical Engineering (C. A. Klein), 1 February 1989 through 30 September 1989. (Project 766670 - Continuation)

\$255,470.00 - Department of Health and Human Services, Center for Disease Control, Atlanta, Georgia, Development of a Multisized Hybrid III Dummy, Department of Mechanical Engineering (R. L. Stalnaker), 1 April 1989 through 31 March 1990. (Project 765973 - Continuation)

\$179,917.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Medicine Administration (D. G. Cornwell), 1 April 1989 through 31 March 1990. (Project 761078 - Continuation)

\$170,413.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, Synthesis of Polyquinane and Related Natural Products, Department of Chemistry (L. A. Paquette), 1 July 1989 through 30 June 1990. (Project 762298 - Continuation)

\$165,586.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Role of Gangliosides in the Pathogenesis of Gliomas, Department of Pathology (A. J. Yates), 1 May 1989 through 31 March 1990. (Project 767412 New)

\$160,219.00 - Department of Health and Human Services, National Institute of General Medical Sciences, Bethesda, Maryland, The Molecular Biology of Organellar Translocation, Department of Molecular Genetics (B. R. Oakley) and Department of Microbiology (D. R. Galloway), 1 April 1989 through 31 March 1990. (Project 763502 - Continuation)

\$154,542.00 - National Science Foundation, Washington, D.C., Psychophysiological Inference: Implications for the Study of Effect and Emotion, Department of Psychology (J. T. Cacioppo), 1 July 1989 through 30 June 1991. (Project 767395 - New)

\$152,315.00 - Department of Health and Human Services, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland, Metabolism of (N-3) Fatty Acids, Department of Physiological Chemistry (H. W. Sprecher), 1 April 1989 through 31 March 1990. (Project 760745 - Continuation)

\$150,286.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, Deoxycytidine Kinase: Regulation and Molecular Biology, Department of Biochemistry (D. H. Ives), 1 May 1989 through 30 April 1990. (Project 767295 - New)

\$150,000.00 - National Science Foundation, Washington, D.C., Analysis of Heat Transfer and Fluid Flow in Manufacturing of Glass-to-Metal Sealings in Electronic Components, Department of Mechanical Engineering (K. Vafai), 15 May 1989 through 30 April 1992. (Project 767420 - New)

\$138,657.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Topical In Vivo Electron Spin Resonance, Department of Chemistry (L. J. Berliner), 1 April 1989 through 31 March 1990. (Project 766380 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$137,991.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Lipids Controlling S. aureus Survival In Vivo, Department of Microbiology and Immunology (F. A. Kapral), 1 April 1989 through 31 March 1990. (Project 763912 - Continuation)

\$130,417.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Research and Graduate Studies Administration (T. L. Sweeney), 1 April 1989 through 31 March 1990. (Project 764748 - Continuation)

\$126,403.00 - Department of Health and Human Services, National Institute of Allergy and Infectious Diseases, Bethesda, Maryland, Ia Expression by Macrophages from Bcg<sup>r</sup> and Bcg<sup>s</sup> Mice, Department of Microbiology (B. S. Zwilling), 1 April 1989 through 31 March 1990. (Project 765985 - Continuation)

\$119,355.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Continuation of the Ohio State University's Undergraduate Middle East Studies Center, University Center for International Studies (A. Payind), Office of International Affairs (C. F. Hermann), and Graduate School Administration (R. Koenigsknecht), 15 August 1989 through 14 August 1990. (Project 766980 - Continuation)

\$109,800.00 - National Science Foundation, Washington, D.C., An Imaging Spectrometer for Long-Term Studies of Emission-Line Objects, Department of Astronomy (J. A. Baldwin), 15 April 1989 through 30 April 1990. (Project 767434 - New)

\$102,382.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Expression of Granule Cell GABA<sub>A</sub> Receptors in the Developing Cerebellar Cortex, Department of Pharmacology (A. Frostholt), 1 April 1989 through 31 March 1990. (Project 767411 - New)

\$100,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Hewlett Packard GC-FTIR-MS Instrument, Department of Chemistry (M. S. Platz), 24 April 1989 through 23 April 1990. (Project 767437 - New)

\$99,930.00 - Department of the Army, Army Research Office, Research Triangle Park, North Carolina, Boundary Layers Induced by Three-Dimensional Vortex Loops, Department of Mechanical Engineering (A. T. Conlisk), 1 May 1989 through 30 April 1991. (Project 767440 - New)

\$85,000.00 - National Science Foundation, Washington, D.C., Spectroscopic Studies of Clusters and Their Chemistry, Department of Chemistry (T. A. Miller), 1 November 1989 through 31 October 1990. (Project 766722 - Continuation)

\$80,455.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Neural Basis of Taste Elicited Ingestion and Rejection, Oral Biology (J. B. Travers), 1 April 1989 through 31 March 1990. (Project 765695 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$79,163.00 - National Science Foundation, Washington, D.C., Research in Astrophysics, Medium Energy Physics, and Fundamental Particles, Department of Physics (R. N. Boyd), 1 November 1989 through 30 April 1990. (Project 765332 - Continuation)

\$75,969.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Receptor Regulation of Adrenal Catecholamine Secretion, College of Pharmacy (D. B. McKay), 1 April 1989 through 31 March 1990. (Project 765968 - Continuation)

\$71,000.00 - National Science Foundation, Washington, D.C., Properties of Superconductors, Department of Physics (T. R. Lemberger), 1 April 1989 through 31 March 1990. (Project 767396 - New)

\$70,159.00 - Department of Health and Human Services, National Heart, Lung, and Blood Institute, Bethesda, Maryland, Mediastinal Effects on Pulmonary Function, Department of Veterinary Physiology and Pharmacology (L. E. Olson), 1 April 1989 through 31 March 1990. (Project 765986 - Continuation)

\$73,822.00 - Department of Health and Human Services, National Cancer Institute, Bethesda, Maryland, BNCT (Boron Neutron Capture Therapy) Accelerator Target Assembly Design and Testing, Department of Mechanical Engineering (T. E. Blue) and Department of Radiology (R. Gahbauer), 1 April 1989 through 31 March 1990. (Project 766660 - Continuation)

\$67,300.00 - Department of Energy, Argonne, Illinois, The Physics of Cellular Automata and Coherence and Chaos in Classical, Many-Body Dynamical Systems, Department of Physics (C. Jayaprakash and F. A. Hayot), 1 May 1989 through 30 April 1990. (Project 766728 - Continuation)

\$60,646.00 - Department of Energy, Argonne, Illinois, The Molecular Characterization of the Lignin-Forming Peroxidase, Department of Horticulture - OARDC and Department of Horticulture (L. M. Lagrimini), 1 April 1989 through 31 March 1990. (Project 767373 - New)

\$60,000.00 - National Science Foundation, Washington, D.C., High Resolution Nuclear Magnetic Resonance (NMR) of Reverse Micelles in Supercritical Fluids, Department of Chemistry (S. V. Olesik), 1 May 1989 through 30 April 1990. (Project 767414 - New)

\$58,000.00 - National Science Foundation, Washington, D.C., Single-Atom Peri-Bridged Arenes and Hetarenes: Carbenic and Silicanionic Processes, Department of Chemistry (H. Shechter), 1 November 1989 through 31 October 1990. (Project 766810 - Continuation)

\$55,000.00 - National Aeronautics and Space Administration, Washington, D.C., Interaction of Calcium, Calmodulin, and Auxin in Root Gravitropism, Department of Botany (M. L. Evans), 1 March 1989 through 28 February 1990. (Project 763005 - Continuation)

\$55,000.00 - National Science Foundation, Washington, D.C., DNA Mismatch Repair and DNA Methylation in Plants, Biotechnology Program and Department of Molecular Genetics (D. M. Bisaro) and Biotechnology Program (P. E. Kolattukudy), 1 July 1989 through 30 June 1990. (Project 766388 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

\$50,000.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Computer Graphics Facility, Department of Chemistry (M. H. Klapper), 24 April 1989 through 23 April 1990. (Project 767432 - New)

\$37,777.00 - Department of Health and Human Services, National Institute of Neurological and Communicative Disorders and Stroke, Bethesda, Maryland, Biomechanics of the Middle Ear, Department of Zoology (T. E. Hetherington), 1 April 1989 through 31 March 1990. (Project 764599 - Continuation)

\$35,033.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, College of Pharmacy (J. M. Cassidy), 1 April 1989 through 31 March 1990. (Project 760661 - Continuation)

\$34,705.00 - National Science Foundation, Washington, D.C., Phonetic Investigation of Metrical Structure in Orally Produced Poetry, Department of Linguistics (I. Lehiste), 1 October 1989 through 30 September 1990. (Project 766729 - Continuation)

\$32,000.00 - Department of Education, Office of Postsecondary Education, Washington, D.C., Patricia Roberts Harris Public Service Fellowship Program, School of Public Policy and Management (A. E. Merget), 1 September 1989 through 31 August 1990. (Project 767400 - New)

\$28,959.00 - National Science Foundation, Washington, D.C., Target Interception by Sonar in the Big Brown Bat, Eptesicus fuscus, Department of Zoology (W. M. Masters), 1 May 1989 through 30 April 1990. (Project 765902 - Continuation)

\$26,600.00 - National Science Foundation, Washington, D.C., Te Hurwitz Problem on Composition of Quadratic Forms, Department of Mathematics (P. Yiu), 1 December 1989 through 31 May 1991. (Project 766071 - Continuation)

\$24,096.00 - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, A Low Velocity Vector, Full-Field Visual Velocimeter for Crystallization Experiments, Department of Chemical Engineering (R. S. Brodkey), 14 April 1989 through 13 April 1990. (Project 767435 - New)

\$22,000.00 - Department of the Navy, Bureau of Naval Personnel, Washington, D.C., Improvement of Earth Orientation Theory, Department of Geodetic Science and Surveying (I. I. Mueller), 1 June 1989 through 31 December 1989. (Project 767438 - New)

\$21,391.00 - Department of Health and Human Services, National Institute for Occupational Safety and Health, Atlanta, Georgia, Incidence of Work-Related Injury, Department of Preventive Medicine (R. S. Hopkins), 1 June 1989 through 31 May 1990. (Project 767413 - New)

\$21,053.00 - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Dentistry Administration (W. R. Wallace), 1 April 1989 through 31 March 1990. (Project 764652 - Continuation)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

**\$19,999.92** - Department of the Army, Army Materiel Command, Watervliet, New York, Optimum Preform Design for Rotary Forging, Engineering Experiment Station (T. Altan and R. Shivpuri), 22 March 1989 through 21 March 1990. (Project 767397 - New)

**\$18,550.00** - National Science Foundation, Washington, D.C., Large Cardinals and Forcing, Department of Mathematics (M. Foreman), 1 June 1989 through 31 May 1990. (Project 767407 - New)

**\$17,324.00** - Department of Health and Human Services, Public Health Service, Region V, Chicago, Illinois, AIDS Education and Training: Meeting the Needs of the Public Health Service, Department of Family Medicine (L. L. Gabel), 28 September 1988 through 30 September 1989. (Project 767424 - New)

**\$15,000.00** - National Aeronautics and Space Administration, Lewis Research Center, Cleveland, Ohio, Numerical Investigation of Jet Mixing Enhancement by Single and Multiple Frequency Plane Wave Excitation, Department of Aeronautical and Astronautical Engineering (J. N. Scott), 1 May 1989 through 31 October 1989. (Project 767419 - New)

**\$14,823.00** - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, Veterinary Medicine Administration (R. A. Wright), 1 April 1989 through 31 March 1990. (Project 762776 - Continuation)

**\$12,632.00** - National Science Foundation, Washington, D.C., Theoretical and Experimental Study of Rotating Flow Past a Sliced Cylinder, Department of Aeronautical and Astronautical Engineering (M. R. Foster), 15 February 1989 through 31 January 1991. (Project 767403 - New)

**\$12,102.00** - National Science Foundation, Washington, D.C., Presidential Young Investigator Award, Department of Physics (R. J. Perry), 15 August 1988 through 31 January 1990. (Project 766901 - Continuation)

**\$11,730.00** - National Science Foundation, Washington, D.C., Pulse Radiolysis Studies of Xanthine Oxidase, Department of Physiological Chemistry (C. R. Hille), 15 April 1989 through 31 March 1992. (Project 767404 - New)

**\$10,000.00** - Department of Agriculture, Economic Research Service, Washington, D.C., Use of Target Revenues Versus Target Prices in Stabilizing Producer Income, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics and Rural Sociology (M. J. Miranda), 12 April 1989 through 1 January 1991. (Project 767410 - New)

**\$8,706.00** - Department of Health and Human Services, Division of Research Resources, Bethesda, Maryland, Biomedical Research Support Grant, College of Optometry (R. M. Hill), 1 April 1989 through 31 March 1990. (Project 765317 - Continuation)

**\$3,500.00** - Department of Agriculture, Soil Conservation Service, Columbus, Ohio, Socio-Economic Factors Affecting the Adoption of Soil Erosion Control Practices, Department of Agricultural Economics and Rural Sociology - OARDC and Department of Agricultural Economics



**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**Federal Research Contracts/Grants (contd)**

and Rural Sociology (T. L. Napier), 30 September 1987 through 29 September 1989. (Project 766387 - Continuation)

**TOTAL - FEDERAL AWARDS** **\$4,415,357.92**

**State of Ohio Research Contracts/Grants**

\$147,835.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Ohio Adult Services Training Program, College of Social Work (R. E. Boettcher), 1 January 1989 through 30 June 1990. (Project 767200 - Continuation)

\$31,258.00 - State of Ohio, Department of Education, Columbus, Ohio, A Multifaceted Look at the Effects of Program OPTIONS, Center on Education and Training for Employment (R. D. Ryan), 15 March 1989 through 30 June 1989. (Project 767415 - New)

\$24,739.00 - State of Ohio, Environmental Protection Agency, Columbus, Ohio, Wetlands for the Control of Non-Point Source Pollution: Literature Review and Preliminary Feasibility Study for Swan Creek Watershed, School of Natural Resources and Department of Natural Resources - OARDC (W. J. Mitsch), 1 April 1989 through 31 March 1990. (Project 767362 - New)

\$9,850.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing Field Collections of Unionid Mollusks into Research-Ready Lots at the Museum of Zoology of The Ohio State University, Department of Zoology (D. H. Stansbery), 1 May 1989 through 31 December 1989. (Project 767416 - New)

\$8,000.00 - State of Ohio, Department of Education, Columbus, Ohio, State Superintendent's Task Force for Preparing Special Education Personnel, Education Administration (T. M. Stephens), 1 July 1988 through 30 June 1989. (Project 766857 - Continuation)

\$5,000.00 - State of Ohio, Ohio Humanities Council, Columbus, Ohio, Archaeology in a Greek Sanctuary: Isthmia Excavations, 1967-1989, Department of History (T. E. Gregory), 3 December 1988 through 30 April 1989. (Project 767263 - Continuation)

\$3,750.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Master Parenting, Cooperative Extension Field Operations (S. F. Joseph), 1 April 1989 through 30 June 1989. (Project 766052 - Continuation)

\$3,000.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Special Parenting Project, Cooperative Extension Field Operations (B. J. Wurzel), 1 April 1989 through 30 June 1989. (Project 765319 - Continuation)

\$2,750.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Mentor Mothers Program, Cooperative Extension Field Operations (W. D. Harris), 1 April 1989 through 30 June 1989. (Project 766679 - Continuation)

\$2,500.00 - State of Ohio, Department of Natural Resources, Columbus, Ohio, Processing Field Collections of Ohio Fishes into Research-Ready Lots at the Museum of Zoology of The Ohio State University, Department of Zoology (T. M. Cavender), 1 May 1989 through 31 December 1989. (Project 767417 - New)

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

**State of Ohio Research Contracts/Grants (contd)**

\$2,134.00 - State of Ohio, Department of Human Services, Columbus, Ohio, Building Family Strengths, Cooperative Extension Field Operations (B. J. Gilbert), 1 April 1989 through 30 June 1989. (Project 766678 - Continuation)

**TOTAL - STATE OF OHIO AWARDS** **\$ 240,816.00**

**Industrial Research Contracts/Grants (contd)**

\$150,000.00 - Pfizer, Inc., Groton, Connecticut, Clinical Pharmacology Research Unit, Department of Pharmacology (N. Gerber), 1 October 1988 through 30 September 1989. (Project 760484 - Continuation)

\$74,520.00 - The Columbus Dispatch, Columbus, Ohio, Video-Based Job Performance Training Development, Education Administration (J. J. Buffer), 3 April 1989 through 30 September 1989. (Project 767399 - New)

\$61,299.00 - Ethicon, Inc., Somerville, New Jersey, A Twelve-Week Clinical Evaluation of 2% Ketanserin Ointment for the Treatment of Lower Extremity Diabetic Ulcers, Department of Internal Medicine (S. Cataland), 1 May 1989 through 31 December 1989. (Project 767401 - New)

\$54,867.80 - Wyeth Laboratories, Philadelphia, Pennsylvania, Phase II Evaluation of the Hemodynamic Effects of Intravenous Recainam in Patients Undergoing Elective Cardiac Catheterization, Department of Internal Medicine (D. B. Van Fossen and C. A. Bush), 1 January 1989 through 31 December 1989. (Project 766289 - Continuation)

\$38,000.00 - Sandia Corporation, Albuquerque, New Mexico, Free Space Position Controller, Department of Electrical Engineering (U. Ozguner), 10 April 1989 through 31 December 1989. (Project 767418 - New)

\$37,605.00 - Sandoz, Inc., East Hanover, New Jersey, A Double-Blind, Placebo-Controlled, Multicenter Study to Determine the Safety and Efficacy of Sandostatin for Normalization or Reduction of Growth Hormone Levels in Acromegalic Patients, Department of Internal Medicine (W. Malarkey), 1 March 1989 through 31 January 1990. (Project 767422 - New)

\$24,805.00 - American Cyanamid Company, Pearl River, New York, Studies of the Safety and Immunogenicity of an Acellular Pertussis Vaccine Compared to Whole Cell Pertussis Vaccine, Department of Pediatrics (L. K. Grossman), 1 January 1989 through 31 August 1989. (Project 766177 - Continuation)

\$18,562.00 - CIBA-GEIGY Corporation, Greensboro, North Carolina, Efficacy and Pharmacokinetics of Formulations of CGA-184699, An Experimental Compound for the Control of Fleas and Other Ectoparasitic Insects, Department of Entomology (W. F. Hink) and College of Pharmacy (J. J. MacKichan), 1 March 1988 through 28 February 1990. (Project 766635 - Continuation)

\$15,332.00 - Perkin Elmer Corporation, Danbury, Connecticut, Low Observables Training Seminar, ElectroScience Laboratory, Department of Electrical Engineering (B. A. Munk), 1 March 1989 through 30 April 1989. (Project 767394 - Continuation)

June 2, 1989 meeting, Board of Trustees

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Industrial Research Contracts/Grants (contd)

\$15,000.00 - Sandoz, Inc., East Hanover, New Jersey, Parlodel 4-1: A Comparison of Bromocriptine and Carbidopa + Levodopa Alone or in Combination for the Treatment of De Novo Parkinson's Patients, Department of Neurology (G. W. Paulson), 1 December 1988 through 31 December 1989. (Project 765138 - Continuation)

\$6,000.00 - Wetlands Research, Inc., Chicago, Illinois, Ecosystem Design Criteria of the Des Plaines River Wetlands: Vegetation/Water Interactions, School of Natural Resources (W. J. Mitsch), 1 June 1989 through 31 October 1989. (Project 767431 - New)

\$2,500.00 - Edmund Niles Huyck Preserve, Inc., Rensselaerville, New York, A Comparison of Forest Floor Microarthropods and Selected Soil Properties at the Edmund Niles Huyck Preserve, Department of Entomology - OARDC and Department of Entomology (J. M. Blair), 1 May 1989 through 31 October 1989. (Project 767421 - New)

TOTAL - INDUSTRIAL AWARDS

\$ 498,490.80

#### Other Non-Federal Research Contracts/Grants

\$173,504.00 - Cincinnati Public School System, Cincinnati, Ohio, Review of Vocational Education Programs in the Cincinnati Public Schools, Center on Education and Training for Employment (R. D. Ryan), 14 February 1989 through 14 August 1989. (Project 767425 - New)

\$120,000.00 - American Heart Association, Ohio Affiliate, Inc., Columbus, Ohio, Fluid Mechanics and Atherogenesis, Department of Surgery and Department of Biomedical Engineering (J. F. Cornhill), 1 April 1989 through 31 March 1991. (Project 767427 - New)

\$99,712.00 - Smokeless Tobacco Research Council, Inc., New York, New York, Effect of Smokeless Tobacco on Root Caries in Humans and Animals, Oral Biology (S. Rosen and K. Schroeder), 1 July 1989 through 30 June 1990. (Project 767426 - New)

\$94,239.00 - Institute of Gas Technology, Chicago, Illinois, Microbial Desulfurization and Denitrification of Eastern Oil Shales, Department of Microbiology (R. M. Pfister), 1 April 1989 through 30 September 1989. (Project 766497 - Continuation)

\$83,806.00 - Smokeless Tobacco Research Council, Inc., New York, New York, In Vivo and In Vitro Effects of Smokeless Tobacco on Oral Bacteria and Periodontal Disease, Oral Biology (K. Schroeder), 1 July 1989 through 30 June 1990. (Project 766816 - Continuation)

\$66,030.00 - Applied Information Technologies Research Center, Columbus, Ohio, Orthopaedic Assist, Department of Surgery (S. R. Simon), 3 March 1989 through 30 June 1990. (Project 767337 - New)

\$53,198.00 - Council on International Educational Exchange, New York, New York, Ministry of Education Intensive English in the U.S.A. for Japanese Teachers of English, English as a Second Language Program (R. N. Kantor), 1 April 1989 through 31 December 1989. (Project 767405 - Continuation)

\$34,300.00 - Cleveland Electric Illuminating, Perry, Ohio, Consortium for the Development of Instructor Training Materials for the Electric Power Industry, Center on Education and Training for

June 2, 1989 meeting, Board of Trustees

## **REPORT OF RESERCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)**

#### **Other Non-Federal Research Contracts/Grants (contd)**

Employment (R. D. Ryan), 1 November 1988 through 31 October 1989. (Project 767260 - Continuation)

\$31,432.00 - Indiana University, Bloomington, Indiana, Malaysia Cooperative Program, English as a Second Language Program (T. T. Diemer), 1 April 1989 through 31 December 1989. (Project 764972 - Continuation)

\$25,000.00 - American Otological Society, Inc., Minneapolis Minnesota, Otosclerosis: Morphological, Histochemical, and Cell Culture Studies, Department of Otolaryngology (D. J. Lim), 1 July 1989 through 30 June 1990. (Project 766196 - Continuation)

\$24,888.00 - Colorado School of Mines, Golden, Colorado, Hydrogen-Induced Cracking and Sulfide Stress Corrosion Cracking of High Strength OCTG Steel Used for Sour Well Services in the Petroleum Industry, Department of Materials Science and Engineering (G. R. St. Pierre), 1 September 1988 through 29 February 1992. (Project 767402 - New)

\$23,800.00 - Ten Members of the National Consortium of State Career Guidance Supervisors, National Consortium of State Career Guidance Supervisors, Center on Education and Training for Employment (R. D. Ryan), 1 July 1988 through 30 June 1989. (Project 766838 - Continuation)

\$17,563.00 - Central State University, Wilberforce, Ohio, Automated Development of Test Program Sites, Department of Chemical Engineering (J. F. Davis), 1 September 1988 through 28 February 1989. (Project 767382 - New)

\$13,728.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Central Office for the Developmental Biologics Activities of the Southwest Oncology Group, Department of Internal Medicine (J. J. Rinehart), 1 January 1989 through 31 December 1989. (Project 767147 - Continuation)

\$13,000.00 - Agency for Instructional Technology, Bloomington, Indiana, Nepal Project Extension, Department of Educational Policy and Leadership (M. A. Cambre), 16 February 1989 through 30 September 1989. (Project 767408 - New)

\$11,250.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, The Treatment of Primary Breast Cancer, Department of Surgery (W. B. Farrar), 1 February 1989 through 31 January 1990. (Project 763659 - Continuation)

\$10,021.00 - National Geographic Society, Washington, D.C., Pollen Histories from Lakes of the Brazilian Amazon, Department of Zoology (P. A. Colinvaux), 1 April 1989 through 31 March 1990. (Project 767439 - New)

\$6,400.00 - University of Pittsburgh, Pittsburgh, Pennsylvania, NSABP Colo-Rectal Protocols, Department of Surgery (W. B. Farrar), 1 February 1989 through 31 January 1990. (Project 763581 - Continuation)

\$3,369.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, SWOG Study #8960, Department of Otolaryngology (D. E. Schuller), 1 January 1989 through 31 December 1989. (Project 766915 - Continuation)

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION (contd)

#### Other Non-Federal Research Contracts/Grants (contd)

\$3,041.00 - Cancer Therapy and Research Foundation of South Texas, San Antonio, Texas, Multidisciplinary Participation in the Cancer Control Activities of the Southwest Oncology Group, Department of Internal Medicine (S. P. Balcerzak), 1 January 1989 through 31 December 1989. (Project 763118 - Continuation)

\$2,500.00 - Wayne State University, Detroit, Michigan, Role of Cricopharyngeal Myotomy and the Treatment of Dysphagia Following Major Head and Neck Surgery, Department of Otolaryngology (D. E. Schuller), 1 August 1988 through 31 May 1989. (Project 767409 - New)

\$2,000.00 - American Astronomical Society, Washington, D.C., International Active Galactic Nuclei (AGN) Watch: Multi-Wavelength Monitoring of the Variable Seyfert Galaxy NGC 5548, Department of Astronomy (B. M. Peterson), 1 February 1989 through 31 January 1990. (Project 767309 - Continuation)

\$1,796.00 - University of Minnesota, St. Paul, Minnesota, Technical Assistance to Moroccan Participant Driss Massahou on His Dissertation, Department of Agricultural Engineering (R. J. Gustafson), 26 February 1989 through 4 March 1989. (Project 766617 - Continuation)

TOTAL - OTHER NON-FEDERAL AWARDS \$ 914,577.00

### ENGINEERING EXPERIMENT STATION

#### State Sponsored Research and Development

\$53,950.00 - additional budget from Ohio Department of Transportation, Columbus, Ohio, for "Digital Data Acquisition and Archiving System," under the direction of the Department of Geodetic Science for the period March 1, 1988 through March 1, 1990. (529752, Ext. 1)

\$ 3,103.00 - from Ohio Department of Transportation, Columbus, Ohio, for "Orientation Course for ODOT Summer Employment," under the direction of the department of Civil Engineering for the period April 1, 1989 through June 30, 1989. (529801)

TOTAL - STATE SPONSORED RESEARCH AND DEVELOPMENT \$ 57,053.00

#### Industrial and Other Sponsored Research and Development

\$59,311.00 - additional funding from Battelle Memorial Institute, Columbus, Ohio, for "Heat Exchanger Aspects of a Gas Fired Cooling Only Heat Pump," under the direction of the Department of Mechanical Engineering for the period August 1, 1987 through December 31, 1989. (312439, Exts. 2 & 3)

\$54,337.00 - from Tokyo Institute of Computational Fluid Dynamics, Tokyo, Japan, for "Development of Computer Software for Computational Fluid Flow Analyses," under the direction of the Department of Mechanical Engineering for the period April 1, 1989 through March 31, 1990. (529795)

\$50,408.00 - from Copeland Corp., Sidney, Ohio, for "Vibration Transmission Analysis of Scroll Compressor for Reduced Noise," under the direction of the Department of Mechanical Engineering for the period April 1, 1989 through March 31, 1992. (529796)

**REPORT OF RESERCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**ENGINEERING EXPERIMENT STATION (contd)**

**Industrial and Other Sponsored Research and Development (contd)**

**\$48,649 .00** - from 39 sponsors of 54 development projects through four departments/research areas of the College.

**\$41,807.00** - additional funding from Donald Cohen, O.D., Charleston, West Virginia, for "Ultrasonic Tonometer Program," under the direction of the Department of Electrical Engineering for the period April 1, 1988 through September 30, 1989. (312457, Ext. 1)

**\$22,500.00** - additional funding from General Electric, Cincinnati, Ohio, for "Inlet Test 2 - Hypersonic Inlet Test," under the direction of the Department of Aeronautical and Astronautical Engineering for the period July 15, 1988 through June 30, 1989. (312468, Ext. 1)

**\$21,600.00** - from General Electric, Cincinnati, Ohio, for "Advanced Titanium Weldability," under the direction of the Department of Welding Engineering for the period April 1, 1989 through December 10, 1989. (529802)

**\$12,000.00** - from various industry for "Membership in Program to Develop Computer Aided Machine Design Modules - Phase II," under the direction of the department of Mechanical Engineering. (312594)

**\$12,000.00** - from the Embassy of Egypt, Washington DC for "Peace Fellow - Hafez El-Salmawy," under the direction of the Department of Mechanical Engineering for the period May 1, 1989 through October 31, 1990. (312501)

**\$10,950.00** - from General Electric, Cincinnati, Ohio, for "Arc Tunnel Testing," under the direction of the Department of Aeronautical and Astronautical Engineering for the period April 4, 1989 through December 15, 1989. (312499)

**\$10,000.00** - additional funding from Edison Material Technology Center, Kettering, Ohio, for "Sheet Metal Forability: Evaluation and Development of Testing," under the direction of the Department of Materials Science and Engineering for the period October 1, 1988 through April 1, 1990. (312486, Ext. 1)

**\$9,489.00** - from Continental Insurance, Neptune, New Jersey, for "Hypertext Project," under the direction of the Department of Computer and Information Science for the period April 1, 1989 through September 30, 1989. (529799)

**\$7,722.00** - from Battelle Memorial Institute, Columbus, Ohio, for "Numerical Calculations," under the direction of the Department of Engineering Mechanics for the period April 1, 1989 through June 30, 1989. (529800)

**\$6,000.00** - additional funding from Edison Welding Institute, Columbus, Ohio, for "Robot, Vision and Off-Line Programming Integration," under the direction of the Department of Welding Engineering for the period July 1, 1988 through June 30, 1989. (529326, Ext. 1)

**TOTAL - INDUSTRIAL AND OTHER SPONSORED RESEARCH** **\$ 366,773.00**

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND**

#### **Establishment of Named Funds**

##### **The H. P. Wolfe Chair in Accounting Fund**

The H. P. Wolfe Chair in Accounting Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from the Dispatch Printing Company of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to support the search for and maintenance of the H. P. Wolfe Chair in Accounting. When the H. P. Wolfe Chaired Professor has been appointed, the annual income shall be used to provide salary and program support in the Academic Faculty of Accounting and Management Information Systems of the College of Business. Appointment to the H. P. Wolfe Chair is to be recommended by the Dean of the College of Business to the Provost and approved by the Board of Trustees. The holder will report annually to the donor's designees on the goals, objectives, and plans for the chair in the upcoming academic year. These yearly reports will describe also the use of all fund earnings, past and projected, over the same two-year period.

It is the desire of the donor that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Business, in order to carry out the desire of the donor.

##### **The Health Management Lecture Fund**

The Health Management Lecture Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from individuals, organizations and corporations interested in and supportive of the Division of Hospital and Health Services Administration in the College of Medicine.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used to provide support for strategic programming initiatives by the Division of Hospital and Health Services Administration to support a lectureship series on health management issues.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the appropriate college dean, department chairperson, or program administrative officer in order to carry out the desire of the donors.

## **REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

### **THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

#### **Establishment of Named Funds (contd)**

##### **The Carolyn Engel Luebeck Memorial Endowment Fund**

The Carolyn Engel Luebeck Memorial Endowment Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from John B. Luebeck, Associate Life Member, The Ohio State University Alumni Association, of Centreville, Virginia, and Stephanie Woodzell, sophomore, The Ohio State University.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of German for lectures and other departmental scholarly activities.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees in consultation with the Dean of the College of Humanities, in order to carry out the desire of the donors.

##### **D. Ransom Whitney Endowed Fund in Statistics**

The D. Ransom Whitney Endowed Fund in Statistics was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from D. Ransom Whitney (Ph.D. '48), Columbus, Ohio, Professor Emeritus of the Department of Statistics, and from friends and students of D. Ransom Whitney.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income shall be used by the Department of Statistics, in consultation, when possible, with D. Ransom Whitney, to fund special needs, including scholarships, fellowships, distinguished visitors and faculty development.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Math and Physical Sciences, in order to carry out the desire of the donors.

##### **The Thomas E. and Jean D. Powers Award Fund**

The Thomas E. and Jean D. Powers Award Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Thomas E. Powers (D.V.M. '53, M.S. '54, Ph.D. '60) and Jean D. Powers (B.S. '50, M.S. '51, Ph.D. '68) of the Departments of Veterinary Clinical Sciences and Statistics, respectively, at The Ohio State University.



## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

#### Establishment of Named Funds (contd)

##### The Thomas E. and Jean D. Powers Award Fund (contd)

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The annual income shall be used in the Department of Statistics to recognize and promote excellence in the teaching of statistics through an annual award to deserving junior faculty members and graduate students.

It is the desire of the donors that this fund should benefit the University in perpetuity. If the need for this fund should cease to exist or so diminish as to provide unused income, then another use shall be designated by the Board of Trustees, in consultation with the Dean of the College of Math and Physical Sciences, in order to carry out the desire of the donors.

##### Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund

The Ronald L. and Sharon Smith Redick Home Economics Graduate Fellowship Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from Ronald L. Redick (M.A. '64, Ph.D. '69) and Sharon Redick (B.S.H.E. '60, M.A. '64) of Columbus, Ohio.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

The income shall be added to the principal until the principal reaches \$10,000. At that time, the annual income shall be used to fund a graduate fellowship. The fellowship shall be awarded to students preparing for positions in Home Economics Education. Preference is to be given to students with the following characteristics in priority order: 1. minorities or males; 2. students with high academic credentials; 3. those with prior experience as officers or advisors in Future Homemakers of America and those active in home economics education related professional and/or honorary societies; 4. applicants from Morrow County, Ohio. The recommendation for the recipient will be made by the faculty implementing the home economics teacher education program, in consultation with the University Committee on Student Financial Aid.

In the event that The Ohio State University should no longer support a Home Economics teacher education program, this account will be moved to the College of Education for graduate fellowships. Preference is to be given to students with an interest in the study of curriculum and instruction.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendation of the Dean of the College of Home Economics or the Dean of the College of Education.

## REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

### THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

#### Establishment of Named Funds (contd)

##### The Lawrence D. Jones Scholarship Fund

The Lawrence D. Jones Scholarship Fund was established May 5, 1988, by the Board of Trustees of The Ohio State University with a gift to The Ohio State University Development Fund in memory of Dean Lawrence D. Jones (B.C.E. '23) from his wife, Alice Cotton Jones (B.S. '24) of Columbus, Ohio. The description was changed June 2, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University with the right to invest and reinvest as occasion dictates.

Ten percent (10%) of the annual income shall be reinvested in the fund's principal to assure future growth. The remaining ninety percent (90%) of the annual income shall be used to provide one or more scholarships to students who have demonstrated superior academic ability as engineering majors at The Ohio State University. Preference will be given to Ohio residents. Additional consideration will be extended to students with proven financial need. Recipients will be named annually, but may be eligible to compete for renewed awards. Selection will be made by the Dean of the College of Engineering with assistance from the University Committee on Student Financial Aid.

Dean Lawrence D. Jones had a lifelong interest in the study of history. This interest should be considered if the need for this fund should cease to exist or so diminish as provide unused income within the area of engineering education at The Ohio State University. If this occurs, the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations from the appropriate administrative officials of the University who are then responsible for engineering and history education.

#### Change in Name and Description of Named Funds

##### The Torrence A. Makley Research Professorship

The Torrence A. Makley Fund was established November 5, 1982, by the Board of Trustees of The Ohio State University, with gifts to The Ohio State University Development Fund by alumni, patients, and friends of the Department of Ophthalmology in the College of Medicine. At the time of the establishment of the endowed fund it was agreed that the fund be redesignated The Torrence A. Makley Research Professorship when the level of funding reached the required amount. The name and description were changed to The Torrence A. Makley Research Professorship, June 2, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The principal and/or income is to be used to provide salary and program support for a distinguished scholar in the Department of Ophthalmology. Selection of the recipient is to be made upon the recommendation of the chairperson of the department, in conjunction with the Dean of the College of Medicine.

REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)

THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)

Change in Name and Description of Named Funds (contd)

The Torrence A. Makley Research Professorship (contd)

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income may be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for the College of Medicine's Department of Ophthalmology.

The Bert C. Wiley, M.D., Endowed Professorship  
in Physical Medicine and Rehabilitation

The Bert C. Wiley, M.D., Professorship in Physical Medicine and Rehabilitation Fund was established April 5, 1985, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Development Fund from an anonymous donor in honor of Bert C. Wiley, M.D., a graduate of The Ohio State University College of Medicine, Class of 1943. At the time of the establishment of the professorship fund it was agreed that the fund be redesignated as an endowed professorship when the level of funding reached the required amount. The name and description were changed to The Bert C. Wiley, M.D. Endowed Professorship in Physical Medicine and Rehabilitation, June 2, 1989.

All gifts are to be invested in the University's Permanent Endowment Fund, under the rules and regulations adopted by the Board of Trustees of The Ohio State University, with the right to invest and reinvest as occasion dictates.

The annual income is to be used to provide support for the work of a distinguished scholar and teacher in the Department of Physical Medicine and Rehabilitation within the College of Medicine. The recipient will be recommended by a search committee with final approval from the Dean of the College of Medicine.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income shall be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to recommendations from the appropriate administrative official of the University who is then directly responsible for medical education.

The Farm Income Enhancement Endowed Chair in  
Agricultural Policy, Trade and Marketing

The Farm Income Enhancement Program Fund was established on April 8, 1988, by the Board of Trustees of The Ohio State University with gifts from Nationwide Insurance Company, the Ohio Farm Bureau Federation and the State of Ohio. The name and description were changed June 2, 1989.

The annual income shall be used to support the work of the distinguished professor whose research, teaching and public service focus on innovation and imaginative solutions to a myriad of marketing and policy issues facing agriculture. The chair holder shall provide leadership for innovative research and teaching programs concerned with farm income, price and market stability, and new alternatives for increasing cash marketing receipts, demand consumption, trade

**REPORT OF RESEARCH CONTRACTS, GRANTS, AND GIFTS (contd)**

**THE OHIO STATE UNIVERSITY DEVELOPMENT FUND (contd)**

**Change in Name and Description of Named Funds (contd)**

**The Farm Income Enhancement Endowed Chair in  
Agricultural Policy, Trade and Marketing (contd)**

policy, price income support, cooperatives and forward integration, marketing orders and self-help alternatives. The chair shall be appointed and shall serve at the pleasure of the Vice President for Agricultural Administration in consultation with the Chairperson of Agricultural Economics and Rural Sociology.

In the event that this position should remain vacant for more than one year, then the annual income from this fund shall be used for innovative and creative activities that will strengthen and enhance the ability of the College of Agriculture and its related units to carry out its mission in an exemplary manner. Specific use shall be determined each year by the Vice President for Agricultural Administration.

Should the need for this fund cease to exist or so diminish as to provide unused income, then the income can be used for any purpose whatsoever as determined by the Board of Trustees, with preference being given to the recommendations of the appropriate administrative official of the University who is then directly responsible for agricultural teaching, research and extension.

**THE OHIO STATE UNIVERSITY FOUNDATION**

**Approval of Description and Establishment of Fund**

**William H. Havener, M.D., Chair  
in Ophthalmology Research Fund**

The William H. Havener, M.D., Chair in Ophthalmology Research Fund was established June 2, 1989, by the Board of Trustees of The Ohio State University with gifts to The Ohio State University Foundation from friends and colleagues in honor of William H. Havener, M.D.

The annual income and additional gifts shall be added to the principal until the minimum level necessary to establish an endowed chair has been reached. Subsequently, the annual income shall be used to provide support for the work of a distinguished scholar in the Department of Ophthalmology within the College of Medicine. The recipient will be recommended by a search committee, with recommendation from the Dean of the College of Medicine to the Provost, and approved by the Board of Trustees.

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**Employment of Architects/Engineers and  
Requestion for Construction Bids**

Background

Derby Hall Renovation

This project will renovate all of Derby Hall (approximately 106,000 gross square feet) to improve the quality, quantity, and efficiency of the space assigned to several academic departments of the College of Social and Behavioral Sciences.

**Employment of Architects/Engineers and  
Request for Construction Bids (contd)**

Background (contd)

Derby Hall Renovation (contd)

This major renovation project will correct long standing deficiencies and bring the building into compliance with current building code requirements. The project includes installation of a new hot water heating system throughout the building; installation of a new central air conditioning and ventilating system; installation of a new roof and new windows and a new accessible elevator; installation of sanitary and storm sewer drainage systems; installation of new plumbing systems, including the domestic hot and cold water distribution system; upgrading the primary and secondary electrical systems to provide sufficient service for the required programs; renovation of selected areas to accommodate changes in occupancy and improve efficiency of space within academic programs; and renovation of the ground level to provide classrooms for support of the general teaching requirements of the University.

Funds for the project were appropriated by the Ohio General Assembly in House Bills 870 and 810. Construction costs are estimated at \$5,950,000, and the total estimated project cost is \$7,105,250.

Kottman Hall - Biotechnology Center Improvements

This project will provide research and support facilities for work with plants and plant tissues for those faculty located in Kottman Hall. Included in the project is construction of a greenhouse facility with up to six separate compartments at the south end of the existing Kottman Hall Greenhouse; remodeling of Kottman Hall room 349 to house a tissue culture laboratory; and installation of five new growth chambers in Kottman Hall room 150.

The research work involves use of a variety of plants and will focus on controlling environmental variables of light, heat, moisture, air movement, dust, bedding materials, and treatments to study the effects on plant tissue and structure over time.

Funds for the project are available from a National Science Foundation grant. Construction costs are estimated at \$236,000; moveable equipment costs are estimated at \$208,000; and the total estimated project cost is \$500,000.

Starling Loving Hall - Pathology Photo Studio and Microscopy Lab

This project will remodel the east end of the ground floor portion of Starling Loving Hall's "M" wing and include extensive work in the basement and minor exterior work. The remodeled area will accommodate an electron microscope with associated support laboratory and office. In addition, the existing Pathology photo studio will be replaced with a new studio, darkrooms, and support facilities. The project also includes new lighting and a dedicated HVAC system.

Funds for the project will be made available from University funds. Construction costs are estimated at \$269,800, and the total estimated project cost is \$309,800.

(See Appendix LVIII for maps, page 1401.)

**EMPLOYMENT OF ARCHITECTS/ENGINEERS AND  
REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 89-126

**DERBY HALL RENOVATION  
KOTTMAN HALL - BIOTECHNOLOGY CENTER IMPROVEMENTS  
STARLING LOVING HALL - PATHOLOGY PHOTO STUDIO AND MICROSCOPY LAB**

Synopsis: The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms and request construction bids for the Derby Hall Renovation, Kottman Hall Biotechnology Center Improvements, and Starling Loving Hall Pathology Photo Studio and Microscopy Lab.

WHEREAS the Derby Hall Renovation will renovate the entire building to improve the quality, quantity and efficiency of the space assigned to several academic departments of the College of Social and Behavioral Sciences; and

WHEREAS the total estimated cost of this project is \$7,105,250, with the estimated construction cost being \$5,950,000, with funding provided from State appropriations in House Bills 870 and 810; and

WHEREAS the Kottman Hall Biotechnology Center Improvements will provide research and support facilities for work involving a variety of plants by Biotechnology Center faculty located in Kottman Hall; and

WHEREAS \$500,000 is available from a National Science Foundation grant for this project, with the estimated construction cost being \$236,000 and the estimated moveable equipment cost being \$208,000; and

WHEREAS the Starling Loving Hall Pathology Photo Studio and Microscopy Lab project will remodel the east end of the ground floor portion of Starling Loving Hall's "M" wing and include extensive work in the basement and minor exterior work; and

WHEREAS \$309,800 is available from University funds for this project, with the estimated construction cost being \$269,800:

**NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for these projects, in conjunction with the Department of Administrative Services as appropriate, and that the fees for these services be negotiated between the firms selected and the Department of Administrative Services, Division of Public Works or the University as appropriate; and

BE IT FURTHER RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids on these projects in accordance with established State of Ohio and/or University procedures, and if satisfactory bids are received, to award contracts or recommend the award of contracts, as appropriate, with all actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## **Employment of Architects/Engineers**

### Background

#### Rightmire Hall Renovation, Phase II

This project is the second and final phase of a project to establish a Biotechnology Center at The Ohio State University. Phase II will remodel the basement and first floor of Rightmire Hall to provide office and administrative space and research laboratories to establish the Center's Molecular Neurobiology and Macromolecular Structure/Fermentation programs and support laboratories and facilities critical to the function of the research programs of the Center.

University funds, currently in the amount of \$200,000, will be made available for this planning and design work.

(See Appendix LVIII for map, page 1405.)

### **EMPLOYMENT OF ARCHITECTS/ENGINEERS**

Resolution No. 89-127

#### **RIGHTMIRE HALL RENOVATION, PHASE II**

**Synopsis:** The Fiscal Affairs Committee recommended authorization to employ architectural/engineering firms for the Rightmire Hall Renovation, Phase II.

**WHEREAS** the Rightmire Hall Renovation, Phase II will complete the phased project to establish a Biotechnology Center at the University; and

**WHEREAS** this project will remodel the basement and first floor of Rightmire Hall to provide office and administrative space and research laboratories to establish the Center's Molecular Neurobiology and Macromolecular Structure/Fermentation programs; and

**WHEREAS** \$200,000 is available from University funds for this initial planning and design work:

#### **NOW THEREFORE**

**BE IT RESOLVED**, That the President and/or Vice President for Business and Administration be authorized to select qualified architectural/engineering firms as necessary for this project, and that the fees for these services be negotiated between the firm selected and the University, with such actions to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## **Request for Construction Bids**

### Background

#### Parking Lot Renovations

This project will reconstruct the 8th and 9th Avenue Parking Lots by adding storm drainage, grading, paving using asphaltic concrete, and concrete curbing.

Traffic and Parking funds are available for this project. The construction costs are estimated at \$179,555, and the total estimated project cost is \$211,818.

(See Appendix LX for map, page 1407.)

## **REQUEST FOR CONSTRUCTION BIDS**

Resolution No. 89-128

### **PARKING LOT RENOVATION**

Synopsis: The Fiscal Affairs Committee recommended authorization to request construction bids for the Parking Lot Renovation.

WHEREAS the 8th and 9th Avenue Parking Lots are to be reconstructed by adding storm drainage, grading, paving using asphaltic concrete, and concrete curbing installation; and

WHEREAS \$211,818 is available from Traffic and Parking for this project, with the estimated construction cost being \$179,555:

#### **NOW THEREFORE**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized to request construction bids for this project in accordance with established University procedures, and if satisfactory bids are received, to award contracts, with all action to be reported to this Board at the appropriate time.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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## **Report of Award of Contracts and Establishment of Contingency Funds**

### Background

(See Appendix LXI for a complete tabulation of bids on all projects and locator maps, page 1409. Amounts shown with an \* include accepted alternates.)

#### Lima Campus - Masonry Repairs and Roof Replacement

This project will replace the roof, flashing, and deteriorated mortar joints on the J. McLean Reed Student Activities Building and Galvin Hall on the Lima Regional Campus. The total project cost is \$156,000; funding is provided from State capital appropriations (House Bill 810). The estimated completion date is July 1989 for the masonry work and August 1989 for the roof. Contracts awarded are as follows:



**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Lima Campus - Masonry Repairs and Roof Replacement (contd)

General Contract (Masonry):	J & P Paving, Columbus, Ohio
Amount:	\$17,872.00
Estimate:	\$28,250.00
General Contract (Roof):	New Tech, Lima, Ohio
Amount:	\$124,871.00
Estimate:	\$127,000.00
Total All Contracts:	\$142,743.00
Contingency Allowance:	\$11,422.58 (8% of construction cost)
Total Project Cost:	\$156,000.00

QARDC - Fisher Auditorium Roof Replacement

This project replaces the deteriorated roof on the Fisher Auditorium at the Ohio Agricultural Research and Development Center in Wooster. The total project cost is \$51,170; funding is provided from State capital appropriations (Senate Bill 386). The estimated completion date is September 1989. The contract awarded is as follows:

General Contract:	Franklin Roofing, Painesville, Ohio
Amount:	\$44,700.00
Estimate:	\$64,100.00
Total All Contracts:	\$44,700.00
Contingency Allowance:	\$4,470.00 (10% of construction cost)
Total Project Cost:	\$51,170.00

Scott Hall Remodeling - Phase I

This project will remodel part of the basement to provide space for the Ice Core Lab for the Byrd Center; part of the first floor to provide laboratories and office space for the Eminent Scholar in Hydrogeology; and part of the second floor to provide a Stable Isotope Lab. The total project cost is \$285,000; funding is provided from University funds. The estimated completion date is December 1989. Contracts awarded are as follows:

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Scott Hall Remodeling - Phase I (contd)

General Contract:	Good Home Maintenance, Columbus, Ohio
Amount:	\$82,812.00 *
Estimate:	\$180,150.00 *
Plumbing Contract:	Westland Mechanical , Columbus, Ohio
Amount:	\$44,500.00 *
Estimate:	\$67,100.00 *
HVAC Contract:	J. A. Guy, Dublin, Ohio
Amount:	\$60,600.00 *
Estimate:	\$75,700.00 *
Electric Contract:	Power National, Lancaster, Ohio
Amount:	\$39,267.00 *
Estimate:	\$54,500.00 *
Total All Contracts:	\$227,179.00 *
Contingency Allowance: (8.4% of construction cost)	\$19,142.73
Total Project Cost:	\$285,000.00 *

Ohio Stadium - Rehabilitation of Exterior Concrete

This project will clean all exterior surfaces by high pressure water blasting, seal all concrete and stucco surfaces with a clear sealer to minimize water absorption, repair deteriorated concrete, replace old aluminum windows, and add finished stucco surface to cover the concrete block walls of the press box in the Ohio Stadium. The total project cost is \$702,750; funding is provided from the Department of Athletics. The estimated completion date is November 1989. Contracts awarded are as follows:

General Contract:	Martin Construction, Columbus, Ohio
Amount:	\$579,530.00
Estimate:	\$958,000.00
Total All Contracts:	\$579,530.00

**Report of Award of Contracts and  
Establishment of Contingency Funds (contd)**

Background (contd)

Ohio Stadium - Rehabilitation of Exterior Concrete (contd)

Contingency Allowance:	\$57,953.00 (10% of construction cost)
Total Project Cost:	\$702,750.00

**REPORT OF AWARD OF CONTRACTS AND  
ESTABLISHMENT OF CONTINGENCY FUNDS**

Resolution No. 89-129

**LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT  
OARDC - FISHER AUDITORIUM ROOF REPLACEMENT  
SCOTT HALL REMODELING - PHASE I  
OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE**

Synopsis: The Fiscal Affairs Committee recommended the acceptance of the report of award of contracts to the lowest responsive and responsible bidders, in accordance with University procedures, for the projects identified.

WHEREAS resolutions adopted by the Board of Trustees on May 4, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the Lima Campus - Masonry Repairs and Roof Replacement project; and

WHEREAS a resolution adopted by the Board of Control of the Ohio Agricultural Research and Development Center in 1981 authorized OARDC to request bids and, if satisfactory bids were received, to recommend to the Department of Administrative Services, Division of Public Works, the award of contracts for the OARDC - Fisher Auditorium Roof Replacement project; and

WHEREAS a resolution adopted by the Board of Trustees on April 7, 1989, authorized the President and/or Vice President for Business and Administration to request bids in accordance with established University procedures, and if satisfactory bids were received to award contracts for the following projects: Scott Hall Remodeling - Phase I and Ohio Stadium - Rehabilitation of Exterior Concrete:

**NOW THEREFORE**

BE IT RESOLVED, That pursuant to the actions authorized previously by this Board and upon the recommendation of the Fiscal Affairs Committee, the report of award of contracts and the establishment of contingency funds for the Lima Campus Masonry Repairs and Roof Replacement, OARDC Fisher Auditorium Roof Replacement, Scott Hall Remodeling Phase I, and Ohio Stadium Rehabilitation of Exterior Concrete projects is hereby accepted.

Upon motion of Mr. Kessler, seconded by Mrs. Bowser, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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June 2, 1989 meeting, Board of Trustees

**Lease of Land to Union Township  
1.5 Acres In Brown County, Ohio**

Background

Location and Description

The 1.5 acre tract, titled in the State of Ohio for the use of The Ohio State University, is located at the northwest corner of the Ohio Agricultural Research and Development Center's Southern Branch, which encompasses approximately 275 acres in Brown County. The property is approximately four miles north of Ripley, Ohio.

U.S. Route 68 and 62 is the western boundary of most of the Southern Branch property; however, this tract and another small parcel are west of the highway and thus are separated from the remainder of the property. The tract is mowed regularly but because of its size and location is not used for research or crop production and is not presently needed by OARDC for academic, research, or support activities.

Proposed Use of the Property

The Board of Trustees of Union Township desire to use the property for the storage of highway maintenance equipment and supplies. The township proposes to construct a small maintenance building (approximately 1,200 square feet) on the site.

Appraisal and Terms of the Lease

Based on a form appraisal in April 1989, by J.V. Rittenhouse, MSA, the fair market rental value of the property is \$1,450.00 per acre which would yield an annual rental rate of \$261.00 for the 1.5 acre tract. The University proposes to lease the land at an annual rental of \$300.00 for a term of 25 years. Rental income would provide general support for OARDC programs.

(See Appendix LXII for map on Lease of Land to Union Township 1.5 Acres in Brown County, Ohio, page 1419.)

**LEASE OF LAND TO UNION TOWNSHIP  
1.5 ACRES IN BROWN COUNTY, OHIO**

Resolution No. 89-130

Synopsis: The Fiscal Affairs Committee recommended the lease of 1.5 acres in Brown County to the Union Township Trustees.

WHEREAS The Ohio State University owns approximately 1.5 acres of undeveloped land at the Ohio Agricultural Research and Development Center's Southern Branch in Brown County, Ohio; and

WHEREAS the Board of Trustees of Union Township in Brown County desires to lease this 1.5 acre tract for the purpose of constructing a building which, with the remainder of the site, would be used for storage of highway maintenance equipment and supplies; and

WHEREAS the appropriate University offices have determined that a long-term lease of this land to the Union Township Trustees is in the best interest of the University:

NOW THEREFORE

**LEASE OF LAND TO UNION TOWNSHIP  
1.5 ACRES IN BROWN COUNTY, OHIO (contd)**

BE IT RESOLVED, That the President and/or Vice President for Business and Administration be authorized, in the name of the Board of Trustees, to negotiate a long-term lease of this 1.5 acre tract in Brown County to the Board of Trustees of Union Township for the exclusive purpose described above, at a rental rate based on the market value of the property and upon such other terms and conditions as are deemed to be in the best interest of the University and to request the Ohio Department of Administrative Services, on behalf of the University, to develop and execute the necessary legal instruments for this lease.

Upon motion of Mr. Kessler, seconded by Mr. Teaford, the Board of Trustees adopted the foregoing resolution by unanimous roll call vote.

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President Jennings:

It now appears likely that state appropriations for the 1989-91 biennium for higher education will not be approved until mid to late June at the earliest. As a consequence, full approval of the University's 1989-90 budget must be deferred until our July meeting. The timing of the state budget process adds a great deal of uncertainty to our fiscal planning this year but, nevertheless, we must proceed in this climate of uncertainty since our 1988-89 fiscal year will close June 30.

It is clear that whatever the final outcome, the 1989-90 University budget will be exceedingly tight. The most recent actions of the House and the Senate have substantially improved on the Executive proposals, and for that we are very grateful. While the increases to the instructional subsidy recommended by the House and Senate are significant, the recommendations now under consideration, nevertheless, fall considerably short of what is needed to maintain our operations at existing levels.

Last January, as we began the legislative process, it was noted that to account for inflation, and keep the student share of cost at an already too high 41 percent, an additional state appropriation of \$200 million for higher education beyond the Governor's recommendation would be required. The House and Senate figures -- while a great improvement -- fall \$64 million short. Furthermore, it also was noted that to continue the progress made by higher education in Ohio, particularly early in this decade, required another \$200 million. In essence the current proposals are \$264 million short of the modest higher education goals of quality and access. The state higher education community faces some difficult decisions.

As I told the House Finance-Appropriations Committee last February and the Senate Finance Education Subcommittee last month, I am extremely proud of the accomplishments of our distinguished faculty members, our dedicated staff members, and our talented students. Ohio State's achievements have been made possible in partnership with the state, through consistent efforts by all decision makers across the University to contain costs and allocate resources wisely. Ohio State has attracted external funds to a greater extent than ever before through the successful fund-raising campaign and through external research support. We have done our share -- and will continue to do so.

June 2, 1989 meeting, Board of Trustees

President Jennings: (contd)

Now, recognizing that there are many competing demands for limited state revenues, we are in a most difficult budget period. As we consider the 1989-90 budget, the priorities that are guiding our planning are to continue to keep costs down, to sustain the momentum as well as meet prior commitments, and to continue to enhance quality while being mindful of our unique mission as Ohio's land-grant research University. To continue to meet these objectives will test our creativity and will demand a high level of commitment to the University on the part of all members of our Ohio State community.

Within the context of these priorities, we must move forward with our planning as we enter the new fiscal year. Today, I am prepared to present for your consideration the expense guidelines for what will be an exceptionally tight budget, regardless of the final outcome of the legislative deliberations.

As in the past, the University Senate's Fiscal Committee and the Faculty Compensation and Benefits Committee have been consulted in the budget planning process. In particular, the Faculty Compensation and Benefits Committee placed before us recommendations to keep our faculty salaries competitive with peer institutions. However, we are not able to fund these recommendations.

Rather, circumstances dictate a different approach to salaries at our University. In this period of scarce resources, I believe that it is imperative that we give strong consideration to our junior faculty and staff colleagues at the lower end of the pay ranges. For this reason, I am recommending an increase for all of our faculty and staff members at the full-time rate of \$480 across-the-board. We also will provide each college and office an additional 2 percent for selective merit increases. We will continue our practice of making a pool of \$1.3 million available for equity, excellence, and market adjustments. Further, I do not anticipate providing any central funding to adjust equipment and supplies budgets for the coming year. The colleges and offices will have to accommodate cost increases for supplies and equipment through internal reallocations.

Due to the uncertainty of the outcome of the continuing deliberations in the General Assembly, I am not presenting revenue guidelines today. We must defer our decision on student tuitions until July. We enter this process with a demonstrated historical and continuing commitment to keeping the tuitions for our students as low as we responsibly can. I indicated earlier this year that with insufficient state support for the instructional subsidy, and with the apparent lack of state recognition for keeping tuitions low, we would have little choice but to increase tuitions. The extent of these increases is as yet unknown, however.

It is instructive to note that the latest proposal recommends a tuition increase cap of 7 percent on undergraduate instructional fees and yet funds Ohio State as though its tuitions were at the higher levels assumed in the Senate recommendations. In fact, this University has kept its tuitions significantly below these assumed levels -- 30 percent below the currently proposed assumptions. It is clear that the budget now under consideration penalizes institutions which have demonstrated their commitment to access through lower tuitions. Ohio State's budget is tight because of the \$22 million annual shortfall that results from the lack of recognition of our low tuitions in the proposed state budget.

President Jennings: (contd)

Suggesting guidelines to you for the 1989-90 budget before having a full picture of the institution's available resources contains risk, but a risk that can be dealt with in several ways. First, I remain optimistic that the General Assembly will produce a higher education budget that restores higher education to a top priority of state government. We have seen that the House and Senate each has substantially improved on the Executive budget. I share with my colleagues around the state our hope for adequate appropriations and am confident that the General Assembly will make every effort to improve our current situation.

To ensure that we maintain the momentum we have worked so hard to achieve, we must continue to look to ourselves. We must continue to control costs and effectively reallocate resources, mindful of the fundamental mission of this institution. We must focus our attention on the academic core of our great University, being certain that quality is not compromised. This will mean considerable sacrifice and difficult decisions in all areas, particularly those not directly related to our primary educational mission. I am asking each of the vice presidents to identify those activities and programs receiving general funds which are in support of, but not central to, our fundamental academic mission. These budgets will be reviewed carefully and general funds may be reallocated in support of the academic core.

In addition, each college and office will begin immediately to define expenditures equal to 1 percent of their total budget to be reallocated. While their reallocated funds will remain in each college or office, the deans and vice presidents will have to demonstrate how they have used these reallocated resources to meet their highest priority needs as identified during their budget hearings.

To deal with scarce resources in the coming year, we must limit our costs; however, we will not limit our energies in the pursuit of excellence. I am proud of all that is being accomplished at this University, and I remain confident that together we can take the steps needed to continue our achievements.

Ms. Casto:

I have a statement. I think it is important that we continue, in this tight budget year, in Ohio State's tradition of keeping education affordable. The Congress of the United States has taken the initiative to vote down a salary increase. Some feel it is due to a public outcry of spending. I feel that at this time it's important that we follow this example, so that we are able to address the issue and the need of an affordable education.

It has been difficult to make this decision but I do feel with this tight budget that I have to vote no this year. Thank you.

#### **EXPENDITURE AUTHORIZATION 1989-90**

Resolution No. 89-131

Synopsis: The Fiscal Affairs Committee recommended authorization to make interim expenditures in Fiscal Year 1989-90 is proposed.

WHEREAS levels of State financial support for 1989-90 have not yet been established; and

June 2, 1989 meeting, Board of Trustees

**EXPENDITURE AUTHORIZATION 1989-90 (contd)**

WHEREAS this University must proceed with its budget planning for 1989-90 even with the current uncertainties in State revenues; and

WHEREAS it is necessary to authorize expenditures for 1989-90 to be effective July 1, 1989, including payment of faculty and staff, prior to the time that this Board adopts the Current Funds Budget for 1989-90:

NOW THEREFORE

BE IT RESOLVED, That the University be authorized to make expenditures consistent with the budget guidelines and the Provisional Current Funds Budget for Fiscal Year 1989-90, as described in the accompanying table, effective July 1, 1989; and

BE IT FURTHER RESOLVED, That the President will present as soon as possible to the Board of Trustees the final version of the Current Funds Budget for 1989-90 with adjustments as may be necessary as a result of the final actions of the General Assembly and Governor of the State of Ohio.

Upon motion of Mr. Kessler, seconded by Mr. Teafor, the Board of Trustees adopted the foregoing resolution with seven affirmative votes cast by Messrs. Berry, Teafor, Barone, Kessler, Wolf, and Wexner, and Mrs. Bowser, and a negative vote cast by Ms. Casto.

(See Appendix LXIII for the chart on The Ohio State University 1989-90 Provisional Current Funds Budget, page 1421.)

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Thereupon the Board adjourned to meet Friday, July 7, 1989, at The Ohio State University Fawcett Center for Tomorrow, Columbus, Ohio.

Attest:

Madison H. Scott  
Secretary

John W. Berry  
Chairman



APPENDIX LIV

THE OHIO STATE UNIVERSITY ENDOWMENT SUMMARY  
May 19, 1989

Presented to the Investments Committee and  
Adopted by the Board of Trustees June 2, 1989  
(See page 1313)



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002

Phone 614-292-6261  
Cable: OSU TRES UD

**THE OHIO STATE UNIVERSITY  
ENDOWMENT SUMMARY  
May 19, 1989**

**Endowment Composition**

	<u>06-30-88</u>	<u>Percent of Equity and Fixed Income Portfolio</u>	<u>05-19-89</u>	<u>Percent of Equity and Fixed Income Portfolio</u>
<b>Equities:</b>				
Chicago Corp.	\$ 38,004,379	18.55%	\$ 42,180,382	17.49%
Nicholas-Applegate	10,454,591	5.10	11,902,867	4.93
Siebel	34,428,707	16.81	39,519,366	16.38
Mutual Fund	17,462,592	8.53	20,197,873	8.37
OSU Managed	<u>33,282,386</u>	<u>16.25</u>	<u>55,034,446</u>	<u>22.82</u>
<b>Total Equities</b>	<b>\$133,632,655</b>	<b>65.24%</b>	<b>\$168,834,934</b>	<b>69.99%</b>
<b>Fixed Income:</b>				
Boatmen's Trust (1)	\$ 21,547,467	10.52%	\$ 22,178,298	9.20%
Cambridge	921,925	0.45	903,496	0.38
Duff & Phelps	9,983,561	4.87	9,957,729	4.13
STW Fixed Income	22,300,069	10.89	22,949,087	9.51
OSU - GIMA	9,954,372	4.86	9,916,989	4.11
OSU Managed	<u>6,502,840</u>	<u>3.17</u>	<u>6,468,735</u>	<u>2.68</u>
<b>Total Fixed Income</b>	<b>\$ 71,210 --</b>	<b>34.76%</b>	<b>\$ 72,374,334</b>	<b>30.01%</b>
<b>Total Equities &amp; Fixed Income</b>	<b>\$204,842,889</b>	<b><u>100.00%</u></b>	<b>\$241,209,268</b>	<b><u>100.00%</u></b>
<b>Real Estate</b>	<b>\$ 43,089,186</b>		<b>\$ 36,568,317 (2)</b>	
<b>Total Portfolio</b>	<b><u>\$247,932,075</u></b>		<b><u>\$277,777,585</u></b>	

(1) Formerly Centerre Trust.

(2) Real Estate reported at most recent appraised value.

Estimated Weighted Average Yield of Endowment Fund

	<u>% Yield</u>	<u>% Change in Market Value May '88 to May '89</u>	<u>Total Estimated Return</u>
<b>Equity:</b>			
Common Stock (Chicago Corp.)	3.65% (1)	18.32%	21.97%
Common Stock (Nicholas-Applegate)	1.75 (2)	26.66	28.41
Common Stock (Siebel)	4.44 (3)	22.77	27.21
Mutual Fund	2.97	24.05	27.02
Common Stock (OSU Managed)	5.01 (4)	13.68	18.69
Standard & Poor's Index	3.81	26.96	30.77
<b>Real Estate:</b>	4.37%	-0- (11)	4.37%

**Fixed Income:**

Bonds (Boatmen's Trust, formerly Centerre Trust)	8.45% (5)	1.86%	10.31%
Bonds (Cambridge)	8.52 (6)	(2.67)	5.85
Bonds (Duff & Phelps)	8.85 (7)	1.48	10.33
Bonds (STW Fixed Income)	9.27 (8)	7.94	17.21
Bonds (OSU - GNMA)	9.95 (9)	1.57	11.52
Bonds (OSU Managed)	8.28 (10)	(0.59)	7.69
Merrill Lynch Corporate/ Government Master	9.13	1.53	10.66

- (1) 19.6% of Chicago Corp. portfolio is made up of cash and cash equivalents which earn 9.6%.
- (2) 0.4% of Nicholas-Applegate portfolio is made up of cash and cash equivalents which earn 8.9%.
- (3) 49.5% of Siebel portfolio is made up of cash and cash equivalents which earn 9.7%.
- (4) 50.8% of OSU Managed portfolio is made up of cash and cash equivalents which earn 9.8%.
- (5) 14.6% of Boatmen's Trust portfolio is made up of cash and cash equivalents which earn 9.3%.
- (6) 4.2% of Cambridge portfolio is made up of cash and cash equivalents which earn 8.9%.
- (7) 1.3% of Duff & Phelps portfolio is made up of cash and cash equivalents which earn 8.9%.
- (8) 0.9% of STW Fixed Income portfolio is made up of cash and cash equivalents which earn 8.9%.
- (9) 0.9% of OSU-GNMA portfolio is made up of cash and cash equivalents which earn 8.9%.
- (10) 92.8% of OSU Managed portfolio is made up of cash and cash equivalents, which earn 9.8%.
- (11) Not able to compare 12 months.
- (12) Endowment Fund Income through May 31, 1989, totaled approximately \$14,340,000.
- (13) Income from University Cash Investments through May 31, 1989, totaled approximately \$13,021,000.

<u>Change in Total Valuation</u>	<u>Current Fiscal Year to Date</u>	<u>Asset Allocation</u>	<u>05-19-89</u>	<u>Percent of Portfolio</u>
Market Value (06-30-88)	\$247,932,075	Equities	\$113,029,853	40.69%
Principal Additions	12,838,074	Fixed Income	62,668,522	22.56
Principal Withdrawals	(166,410)	Real Estate	36,458,000	13.13
Change in Market Value	<u>17,173,846</u>	Cash	<u>65,621,210</u>	<u>23.62</u>
<b>Current Market Value</b>	<b><u>\$277,777,585</u></b>	<b>Total Portfolio</b>	<b><u>\$277,777,585</u></b>	<b><u>100.00%</u></b>

Maturities That Occurred During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Gain/Loss</u>
30,000	U.S. Savings Bond, Series H*	OSU	\$0.00

Real Estate

Sale

No Activity

Total Investment

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Purchases Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Price/Share</u>	<u>Investment</u>	<u>Dividend</u>
3,500	Becton Dickson & Co.	Chicago	54.4471	\$ 190,792.00	\$ 3,500.00
2,400	Boeing Co.	"	78.7500	189,156.00	4,320.00
6,300	Community Psychiatric Centers	"	30.2050	190,701.00	2,268.00
5,500	ConAgra, Inc.	"	34.6251	190,795.00	4,235.00
5,700	Corning, Inc.	"	33.0000	188,470.50	4,560.00
5,000	Crompton & Knowles Corp.	"	38.7824	194,237.00	6,200.00
11,000	First Alabama Bancshares	"	17.5000	192,500.00	9,240.00
5,000	Limited, Inc.	"	32.0430	160,540.00	1,200.00
5,000	Times Mirror Corp., Cl. A	"	37.7750	189,200.00	5,000.00
5,700	Applied Biosystems, Inc.	Nicholas- Applegate	35.9467	204,896.00	0.00
9,900	Comcast Corp., Cl. A	"	23.3952	231,612.50	1,188.00
10,000	Costco Wholesalers Corp.	"	22.9631	229,631.10	0.00
7,900	Oracle Systems Corp.	"	28.4596	224,870.50	0.00
400	Seagate Technology	"	13.3250	5,330.00	0.00
18,600	U.S. Health Care, Inc.	"	12.6044	234,521.40	3,720.00
50	Exxon Corp.*	OSU	44.6876	2,234.38	110.00
754	Evergreen Total Return Fund*	"	17.8800	13,472.83	0.00
16,500	Consolidated Rail Corp.	Siebel	35.8340	592,416.00	19,800.00
10,400	Mitchell Energy & Development Corp.	"	16.0685	<u>167,786.60</u>	<u>2,496.00</u>
				<u>\$3,593,162.81</u>	<u>\$67,837.00</u>

\* Gift.

The Ohio State University  
Common & Preferred Stock

Common & Preferred Stock

Sales Made During Period

<u>Number of Shares</u>	<u>Company</u>	<u>Advisor</u>	<u>Average Price/Share</u>	<u>Total Amount</u>	<u>Gain(Loss) On Sale</u>
5,500	Aon Corp.	Chicago	33.5250	\$ 184,023.85	\$ 23,330.35
6,000	Dexter Corp.	"	28.9560	173,340.20	19,986.20
1,600	Digital Equipment Corp.	"	96.7570	154,702.03	6,798.03
3,500	Duke Power Co.	"	45.8620	160,284.14	9,913.64
3,100	Hilton Hotels Corp.	"	62.3790	193,166.95	38,032.17
3,600	Lockheed Corp.	"	46.6270	167,617.60	12,583.60
4,500	Millipore Corp.	"	32.0000	143,702.70	(10,152.30)
4,200	Morgan (JP) & Co., Inc.	"	36.4930	152,992.49	(3,730.51)
4,800	Precision Castparts Corp.	"	31.6250	151,800.00	(12,600.00)
4,930	Prime Motor Inns, Inc.	"	30.2750	148,930.32	(14,876.28)
6,000	Wisconsin Energy Corp.	"	26.6250	159,354.67	5,124.67
3,000	Woolworth (FW) Co.	"	51.6600	154,779.83	2,757.83
1,300	Albertson's, Inc.	Nicholas-Applegate	43.2500	56,145.12	18,908.17
13,200	Bear Stearns Cos., Inc.	"	14.0992	185,310.81	(12,058.79)
8,200	Fleetwood Enterprises, Inc.	"	24.9825	204,357.85	447.75
3,500	Household International, Inc.	"	50.7051	177,252.07	28,894.98
4,900	Inland Steel, Inc.	"	38.8109	189,873.15	4,709.15
8,900	Salomon, Inc.	"	23.6028	209,523.99	425.35
2,000	Union Bank of San Francisco	"	24.8750	49,750.00	(4,250.00)
600	Standard Products Co.*	OSU	29.0000	17,299.42	(250.58)
2,735	Van Kampen Merritt U.S. Gov't. Fund*	"	14.6000	39,931.00	(54.75)
8,400	Federal National Mortgage Assn.	Siebel	80.9350	679,243.33	421,761.48
9,000	Holiday Corp.	"	44.7500	402,196.57	156,097.57
1,300	Loews Corp.	"	92.2500	119,830.00	60,294.93
5,100	Pepsico, Inc.	"	47.7500	<u>243,159.88</u>	<u>103,419.88</u>
				<u>\$4,518,567.97</u>	<u>\$855,512.54</u>

\* Gift.

The Ohio State University  
Bonds/Notes

Bonds

Purchases Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Current Yield</u>	<u>Yield to Maturity</u>	<u>Average Price</u>	<u>Total Investment</u>
625,000	U.S. Treasury Bond 8.875% 08/15/17	Boatmen's	8.9788	8.9860	98.8438	\$ 617,773.44
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	9.3663	9.3998	94.7543	<u>852,789.06</u>
						<u>\$1,470,562.50</u>

The Ohio State University  
Bonds/Notes

Bonds

Sales Made During Period

<u>Par Value</u>	<u>Issue, Coupon, Maturity</u>	<u>Advisor</u>	<u>Average Price</u>	<u>Sale Price</u>	<u>Gain(Loss) On Sale</u>
820,000	Community Program Loan Trust 4.500% 10/01/18	Boatmen's	55.4062	\$ 454,331.25	\$ 8,843.91
1,195,000	Northwestern Bell Telephone 8.125% 03/15/17	"	84.3842	1,008,390.70	10,565.70
900,000	U.S. Treasury Bond 8.875% 02/15/19	Cambridge	97.9062	<u>881,156.25</u>	<u>(4,218.75)</u>
				<u>\$2,343,878.20</u>	<u>\$15,190.86</u>



THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

	<u>Yield</u>	<u>Acquired</u>	<u>Invested</u>	<u>Appraised Value</u>	<u>Date Appraised</u>
Building and 3.295 acres at 930 Kinnear Road	10.46%	1962	\$ 435,204	\$ 1,400,000	06/87
Building and 5.56 acres at 1100 Kinnear Road	12.00	1984	825,000	1,900,000	06/87
Building and 2.633 acres at 1900 Kenny Road	10.47	1961	659,930	1,150,000	06/87
Building and 6.41 acres at 1960 Kenny Road	8.89	1971	1,320,693	2,300,000	06/87
Building and 6.328 acres at 1991 Kenny Road	3.18	1968	170,000	570,000	06/87
46.984 acres of land in Delaware County	.00	1971	100,793	137,000	06/87
Hanger at Don Scott Field (Loan)	.00	1973	32,664 (1)	32,664	N/A
Hanger addition at Don Scott Field (Loan)	10.00	1978	77,653 (1)	77,653	N/A
House and .23 acres of land, 760 Beautyview Court	.00	1988	100,000	100,000	06/88
94.5 acres of land on Harrisburg Pike	.00	1986	190,000	250,000	10/87
51 acres of land, 2809 West Granville Road	.00	1962	160,265	2,762,000	06/87
48.52 acres of land, 3025 West Granville Road	.00	1972	544,398	4,124,000	06/87
76.143 acres of land, 3253 West Granville Road	.40	1968	310,538	6,472,000	06/87
30.539 acres of land, 3371 West Granville Road	.00	1971	265,079	2,596,000	06/87
32 acres of land, 3371 West Granville Road	.00	1986	2,078,666	2,720,000	06/87
12 acres of land, 3483 West Granville Road	.00	1965	24,000	1,020,000	06/87
8.557 acres of land, 3505 West Granville Road	.00	1968	17,114	727,000	06/87
Undivided one-half interest in building and .65 acres at 1375 South Hamilton Road	.00	1986	95,000	95,000	01/86
20.988 acres of land on Shier-Rings Road	.00	1978	241,848	950,000	05/88
17.92 acres of land on Elterman Road	3.73	1978	25,152	725,000	05/88
Veterans Administration Clinic	5.67	1979	<u>3,767,261</u>	<u>6,460,000</u>	02/85
			<u>\$11,441,258</u>	<u>\$36,568,317</u>	

(1) Amount represents balance on loan made to Department of Aviation.



Office of the Treasurer

Riverwatch Tower - Suite B  
364 West Lane Avenue  
Columbus, OH 43201-1002  
Phone 614-292-6261  
Cable: OSU TRES UD

**MEMORANDUM**

Subject: Proxy Solicitations  
Date: May 31, 1989  
From: James L. Nichols, Treasurer *James L. Nichols*  
To: Board of Trustees, The Ohio State University

During the month of May 1989, the University voted 20 proxies.

Management proposals were as follows:

- 1) Ratification of the Board of Directors;
- 2) Approval of Independent Auditors;
- 3) Approval of the 1989 Incentive Stock Option Plan;
- 4) Amendment to require an 80% affirmative vote, by the Directors, to elect the president and chief executive officer;
- 5) Authorize repurchase of common stock;
- 6) Approve an amendment to the company's 1988 restricted stock incentive plan;
- 7) Increase the number of authorized shares of common and preferred stock;
- 8) Approval of amendments to the Employee Stock Option Plan;
- 9) Approval of the 1989 Stock Appreciation Rights Plan;
- 10) Approval of an amendment to the company's 1988 restricted stock incentive plan;
- 11) Approval of granting of options to members of Board of Directors;
- 12) Approval of a share exchange.

Shareholder proposals were as follows:

- 1) Reinstate election of directors annually, not staggered;
- 2) Provide for cumulative voting in the election of directors;
- 3) Implement a policy of secret voting at all shareholders' meetings;
- 4) Ensure that goods and services produced in whole or part by slave labor shall not be acceptable for delivery to the Corporation;
- 5) Require a mandatory retirement policy for members of the board.

The University voted for all management proposals and against all shareholder proposals, which management also opposed.

The 20 corporations were:

- 1) Albertson's, Incorporated
- 2) Ames Department Store, Incorporated
- 3) Autodesk, Incorporated
- 4) Citizens Utility Company
- 5) DNA Plant Technology Corporation
- 6) Food Lion, Incorporated
- 7) F.W. Woolworth Company
- 8) Hechinger Company
- 9) The Limited, Incorporated
- 10) Masco Corporation
- 11) May Department Stores, Incorporated
- 12) McDonalds Corporation
- 13) Mercantile Stores Companies
- 14) Newell Company
- 15) Occidental Petroleum Corporation
- 16) Student Loan Marketing Association
- 17) Super Value Stores, Incorporated
- 18) TriMas Corporation
- 19) Toys R Us, Incorporated
- 20) Wal-Mart Stores, Incorporated

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APPENDIX LV

THE OHIO STATE UNIVERSITY ENDOWMENT FUND --  
REAL ESTATE INVESTMENTS

Presented to the Investments Committee and  
Adopted by the Board of Trustees June 2, 1989  
(See page 1313)

THE OHIO STATE UNIVERSITY ENDOWMENT FUND  
REAL ESTATE INVESTMENTS

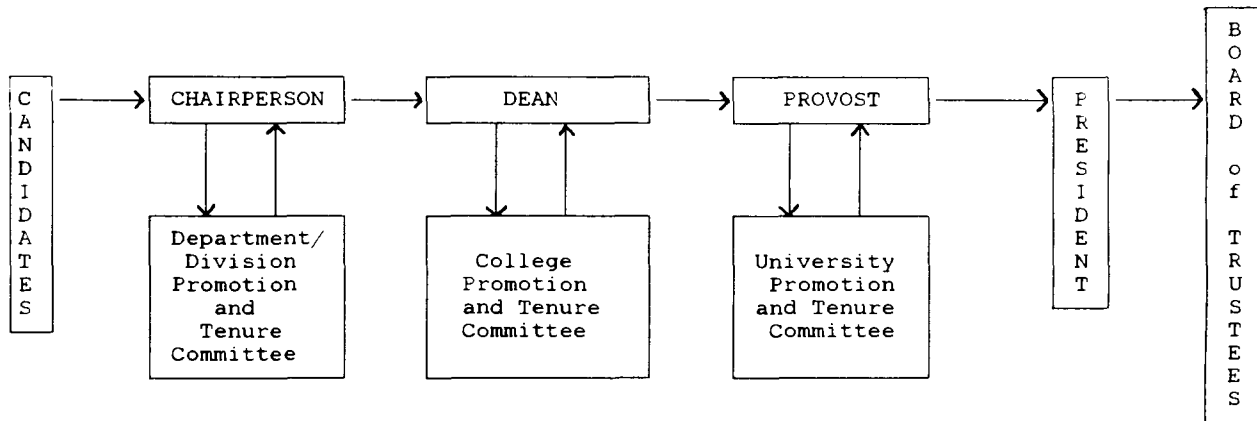
PROPERTY	PURCHASE or GIFT	OBTAINED FROM	ACQUIRED	INVESTED	APPRAISED VALUE	DATE APPRAISED
<b>University area:</b>						
1900 Kenny Road	P	OSU - Research Foundation	1961	659,930	1,150,000	06/87
1960 Kenny Road	P	Estate of Herrick L. Johnston	1971	1,320,693	2,300,000	06/87
1991 Kenny Road	P	Battelle Memorial Institute	1968	170,000	570,000	06/87
930 Kinnear Road	P	OMCO Building Corporation	1962	435,204	1,400,000	06/87
1100 Kinnear Road	P	Allis Chalmers Credit Corporation	1984	825,000	1,900,000	06/87
VA Clinic	P	Constructed with Endowment Funds	1979	3,767,261	6,460,000	02/85
<b>West Granville Road</b>						
2809 - 51 acres	P	Adah S. Prushing	1962	160,265	2,762,000	06/87
3025 - 49 acres	P	Herschel D. & Beryl L. Mitchell	1972	544,398	4,124,000	06/87
3253 - 76 acres	P	Gail McGurer et al	1968	310,538	6,472,000	06/87
3371 - 31 acres	P	Adah S. Prushing et al	1971	265,079	2,596,000	06/87
3371 - 32 acres (farm)	P	Adah S. Prushing et al	1986	2,078,666	2,720,000	06/87
3483 - 12 acres	P	Oran B. Love Construction Company	1965	24,000	1,020,000	06/87
3505 - 9 acres	P	Nancy M. (Delewese) Fridd et al	1968	17,114	727,000	06/87
<b>Awaiting Sale</b>						
760 Beautyview Court	G	Estate of Francis B. McCormick	1988	100,000	100,000	06/88
Delaware County - 47 acres	P	Nationwide Communications, Inc.	1971	100,793	137,000	06/87
Elierman Road - 18 acres	G	Carol Kennedy Trust	1978	25,152	725,000	05/88
Harrisburg Pike - 95 acres	G	Leonard J. Imke, Jr.	1986	190,000	250,000	10/87
1375 S. Hamilton Road	G	Monterey Life Systems, Inc.	1986	95,000	95,000	01/86
Shier-Rings Road - 21 acres	G	Carol Kennedy Trust	1978	241,848	950,000	05/88
				-----	-----	
				\$11,330,941	\$36,458,000	
				=====	=====	

APPENDIX LVI

THE OHIO STATE UNIVERSITY PROMOTION AND TENURE PROCESS

Presented to the Academic Affairs Committee  
(See page 1314)

THE OHIO STATE UNIVERSITY  
PROMOTION AND TENURE PROCESS





# UNIVERSITY-LEVEL PROMOTION AND TENURE RESULTS FOR 1988 AND 1989

	1988			1989		
	Total Number of Recommendations	Yes	No	Total Number of Recommendations	Yes	No
TOTAL	167	158 (6)*	9	151	142 (5)*	9
PROFESSORS						
Promotion	36	35	1	42	39	3
Promotion with Tenure	3	3 (2)*	0	1	1	0
ASSOCIATE PROFESSOR						
Promotion	18	16	2	11	11	0
Promotion with Tenure	67	65 (4)*	2	73	68 (4)*	5
Tenure	14	14	0	10	10	0
ASSISTANT PROFESSOR						
Promotion	7	6	1	5	5	0
Promotion with Tenure	8	8	0	5	5 (1)*	0
Tenure	10	7	3	3	2	1
INSTRUCTOR						
Tenure	4	4	0	1	1	0

\* Number of promotion and tenure recommendations for which tenure only was awarded

# PROMOTION AND TENURE CANDIDATES CONSIDERED

## BY THE PROVOST'S PROMOTION AND TENURE ADVISORY COMMITTEE

COLLEGE	1986-87		1987-88		1988-89	
	On Cycle	Off Cycle	On Cycle	Off Cycle	On Cycle	Off Cycle
Agriculture	11	2	4	1	12	
Cooperative Extension	38	1	23		11	
Arts	9		6		11	
Biological Sciences	2	1	4		3	
Business	5	1	9		6	
Dentistry	1*		4		5	
Education	7		6	2	9	
Engineering	13		17		14	
Home Economics	3	1	4		3	
Humanities	11	1	13	2	12	
Law	1		1		2	
Libraries	2	1	5	1	4	
MPS	15		22		11	
Medicine	22		25	1	17	
Nursing	1		0		0	
Optometry	0		1		1	
Pharmacy	1		2		1	
SBS	8		6	2	19	
Social Work	2		1		2	
Vet Med	5		4	1	8	
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	
TOTAL REGULAR FACULTY	157	8	157	10	151	
Agriculture Adjunct	1					
Bio Sci Adjunct	1				1	
Dentistry Clinical	1				3	
Education Adjunct			1			
MPS Adjunct					1	
Medicine Adjunct	1					
Medicine (Aux/Clinical)	17		20		17	
Medicine (Regular Clinicals)	2				27	
Pharmacy Clinicals	4		1		5	
Vet Med Clinicals			1			
	<hr/>		<hr/>		<hr/>	
	27		23		54	

APPENDIX LVII

DROUGHT TASK FORCE MINUTES  
April 7, 1989

Presented to the Agricultural Affairs Committee  
(See page 1347)

## DROUGHT TASK FORCE MINUTES

April 7, 1989

The Drought Task Force met on April 7, 1989 to assess the drought situation and consider recommendations as a result of what was learned.

### OBSERVATIONS

- The 1987-88 drought appears to be over based on
  - 1) Palmer Drought Index, except for some stations in NW Ohio still reporting below normal ppt, shows moist or no stress conditions.
  - 2) Reservoirs are near normal.
  - 3) Soil moisture within the root zone appears to be near normal although substrata moisture in some areas reported to be below normal.
  - 4) Tile lines are draining in most areas of Ohio, indicating saturated conditions.
  - 5) Stream flows are within normal/above normal range at this time of year for most of Ohio.
  - 6) Water tables are rebounding.
- Agriculture will still be impacted by drought in '89
  - 1) pesticide carryover, especially herbicides, expected; thus rotations changed and damage could result if rotations not changed.
  - 2) tree seedlings (forestry, Xmas trees, orchards) were severely damaged in '89 (>80-85% mortality); thus heavy replanting in '89 anticipated. No long-term forest impact expected.
  - 3) Food prices will be impacted in '89, adding 1.5-2% on top of the expected 4% increase, at least during 1st quarter of '89.
  - 4) It is anticipated that crop insurance interest, application will increase in '89, a typical reaction after any climatic stress.
  - 5) Gov't. program participation is likely to be down as a result of higher crop prices, again a typical reaction to higher commodity prices (approx. 70% compared to 80-85% normal).
  - 6) interest in irrigation among some farmers will continue as modified by how wet/dry this spring is; particularly as an "insurance" practice to overcome occasional dry "humps."
  - 7) The drought led to a temporary reprieve of the food/grain glut which came at the same time of the GATT negotiations and US Farm Bill development, thereby impacting the character of these policy instruments more so than if they were negotiated under more typical weather patterns.

### CONCLUSIONS/RECOMMENDATIONS

- Several things were learned from the drought in reference to our (OSU) response:
  - 1) A media focus is needed under such stress; it took us a while to get this under control although the public and media were well-served. Recommendation: Coordinate with ODA-ODNR-Gov. Office.
  - 2) We were not well equipped (OCES) to deal with the emotional stress of our clientele that are weather-dependent. Recommendation: College of Home Economics now has a new resource on board but we must be careful to respect our boundaries of knowledge and know when to recommend professional help.
  - 3) We are not well-resourced with respect to legal issues - many questions were fielded on water rights, insurance liability, pest management system failures, etc. Recommendation: assess the need for refilling a position in this area.

- 4) We need resources to deal with irrigation - we are not well resourced with up-to-date printed material and economics and there will continue to be interest in this area, particularly with respect to horticultural crops and where they are rotated with agronomic crops. Recommendation: We are currently reviewing documents from other states and recommend that Ag Engineering develop resources in this area.
  - 5) The attempt to keep the county offices at the center of the information distribution seems to have proven both successful and beneficial to the OCES/OSU response. Recommendation: Maintain this delivery system.
  - 6) We must be conscious when to back off; the FSR program did not draw well- the drought and its impact were essentially over as far as the growing season was concerned. Recommendation: Trust collective judgement based on consumer demand for information.
- In short, the College response, primarily through OCES with intense OARDC back-up, appears to have been executed well. Feedback has been positive. We can be proud of our collective response - especially in times of declining resources.



# PROGRAM UPDATE

February 1989

## *Response To The 1988 Drought*

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**Planning, coordination and communication are the keys to a successful crisis response. When in drought, do like we did:**

**Get the experts together fast.** Ohio State's College of Agriculture put together a task force on drought. Within hours of its formation, hundreds of answers to drought questions were flying electronically from campus to county Extension offices. Within the week, a satellite TV broadcast addressed key issues.

**Work together.** The drought brought questions for experts across Ohio State's main campus, at the OARDC in Wooster and from other agencies. Citizens needed answers. Ohio State found the people who had them.

**Get the word out.** The hottest news story of the summer demanded lots of information and education. Ohio State kept the wires full of facts. We arranged press conferences, set up interviews for national media, provided TV footage and took the media to see the drought's effects first hand. We even did some live broadcasts ourselves, giving Ohioans a chance to ask questions on four call-in TV programs.

**Go one-on-one.** Each situation was different. Sometimes people just wanted to talk. County Extension agents are where the people are. In a crisis they can give expert advice, one-on-one, and help cut the tension.

**Give fast relief.** "How can I save my lawn?" "What will my cattle eat?" "Will the corn ever grow?" "When will my husband feel less depressed?" Ohio State faculty answered these questions as best anyone could. Sometimes it was with information. Sometimes it was with a supply of donated hay or new source of water. Sometimes it was by being there to talk to.

**Go with the flow.** Everything else was secondary. Normal College of Agriculture programs took a different focus. Fairs, field days and meetings became times to show people exactly what drought was doing to their plants, animals and lifestyles. They were a chance to offer hope through practical suggestions, a chance to show what we did know and find out what we didn't. The "teachable moment" was a matter of financial and emotional survival for Ohioans.

**Be there.** Hundreds of people gave of their time to help deal with the drought crisis. Extension employees across the state were on call practically 24 hours a day to answer questions and offer help. Researchers and other state employees worked round the clock to come up with possible solutions and help people deal with drought problems.

**Flaunt whatever you have.** With Extension agents in every county and experts at Ohio State and the OARDC, we had the delivery system to get answers fast. Satellite TV, computer networks and the good ole' telephone were used to spread the word. And the news services from our Section of Information kept the media on top of the story from day one.

**Don't be caught napping.** The drought's effects aren't over. Throughout the winter, Ohio State specialists have been analyzing the effects of last summer and looking ahead to another growing season. They've dealt with winter water supply and contamination questions for cities and towns. They've looked at how different home and farm plants stood the drought. And they've helped farmers make financial decisions with last summer in mind and 1989 in focus.

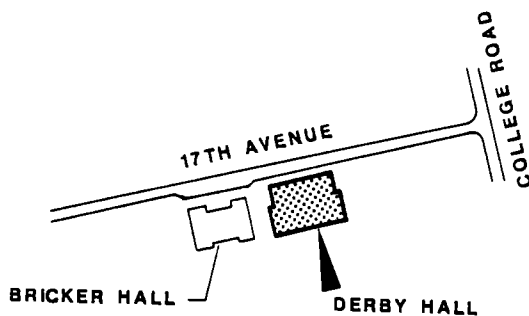
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APPENDIX LVIII

DERBY HALL RENOVATION  
KOTTMAN HALL - BIOTECHNOLOGY CENTER IMPROVEMENTS  
STARLING LOVING HALL - PATHOLOGY PHOTO STUDIO AND  
MICROSCOPY LAB

Adopted by the Board of Trustees June 2, 1989  
(See page 1367)

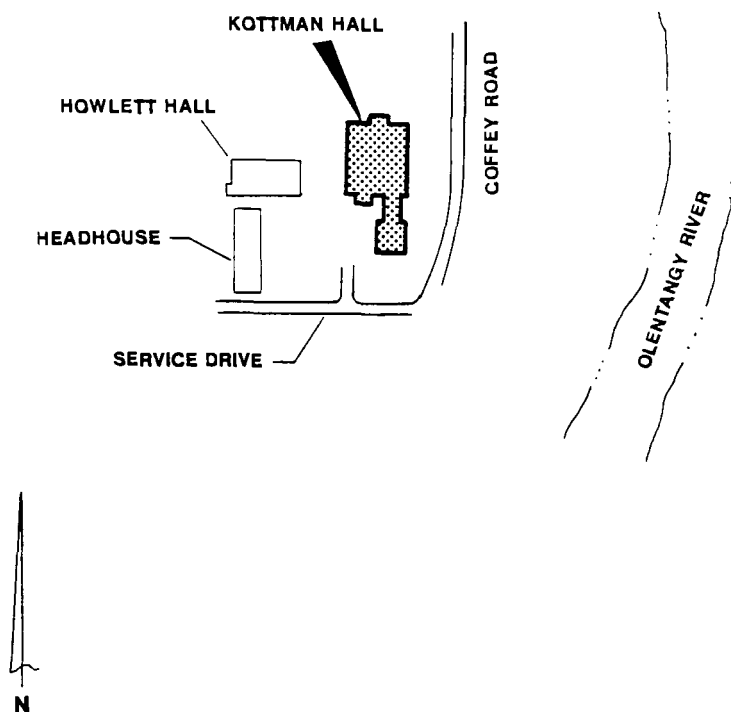
# DERBY HALL RENOVATION



**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

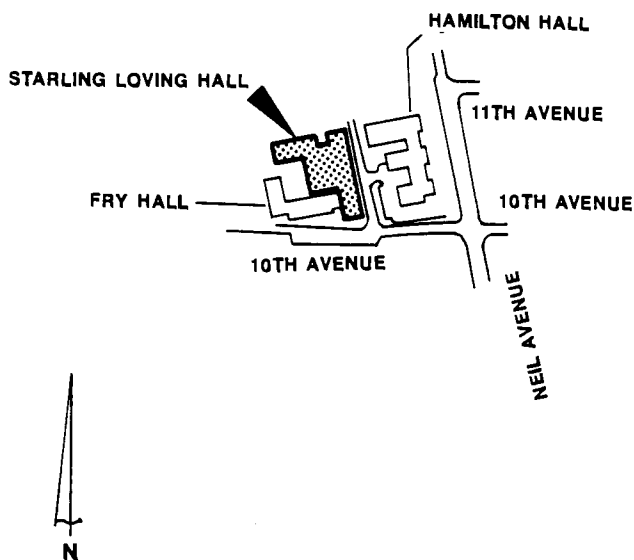


# KOTTMAN HALL BIOTECHNOLOGY CENTER IMPROVEMENTS



OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989

# STARLING LOVING HALL PATHOLOGY PHOTO STUDIO AND MICROSCOPY LABORATORY



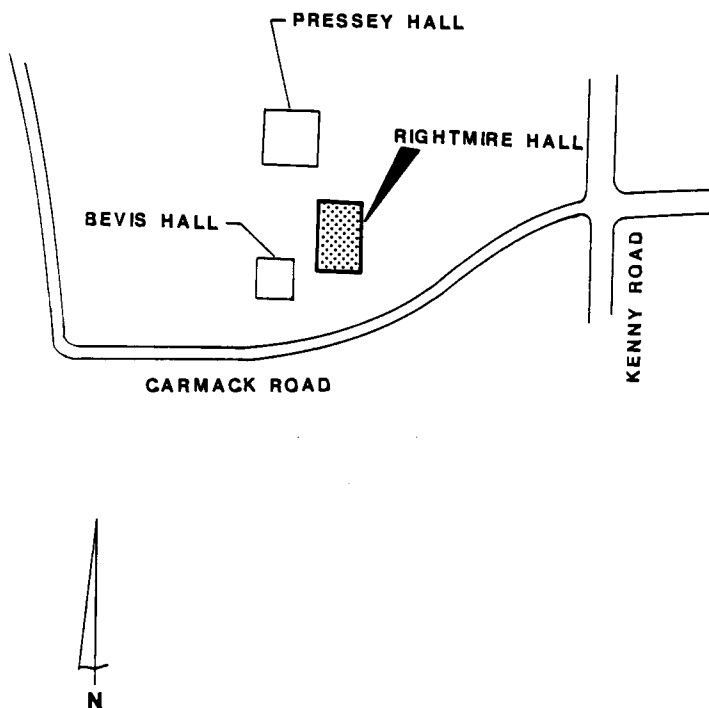
OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989

APPENDIX LVIII

RIGHTMIRE HALL RENOVATION, PHASE II

Adopted by the Board of Trustees June 2, 1989  
(See page 1369)

# RIGHTMIRE HALL RENOVATION PHASE II



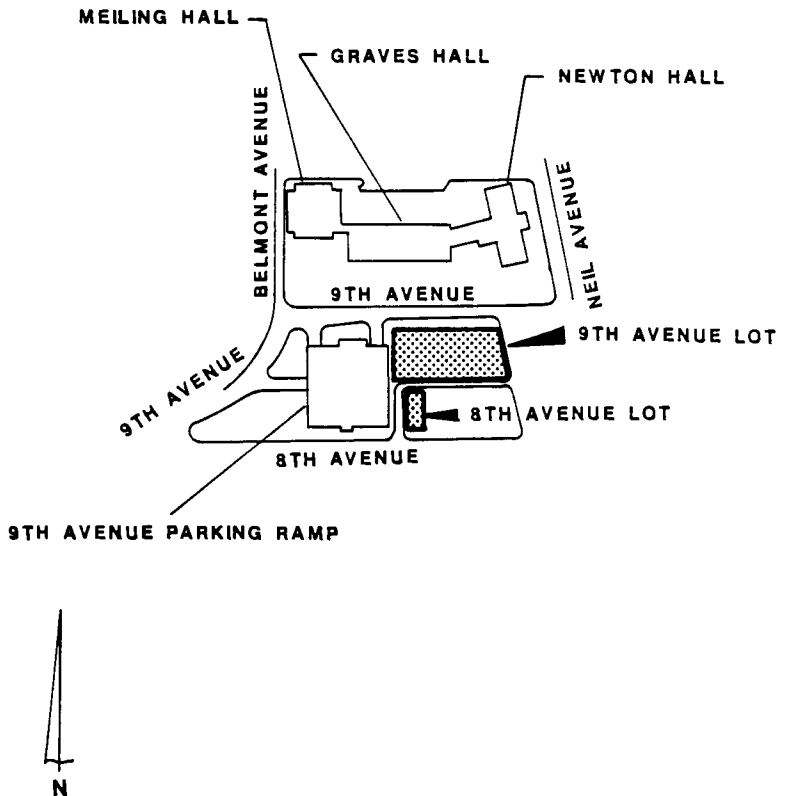
**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

## APPENDIX LX

### PARKING LOT RENOVATIONS

Adopted by the Board of Trustees June 2, 1989  
(See page 1370)

# **EIGHTH AND NINTH AVENUE PARKING LOT RENOVATIONS PAVING AND STORM SEWERS**



**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

APPENDIX LXI

LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT  
OARDC - FISHER AUDITORIUM ROOF REPLACEMENT  
SCOTT HALL REMODELING - PHASE I  
OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE

Adopted by the Board of Trustees June 2, 1989  
(See page 1370)

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## LIMA CAMPUS - MASONRY REPAIRS AND ROOF REPLACEMENT

### Tabulation of Bids

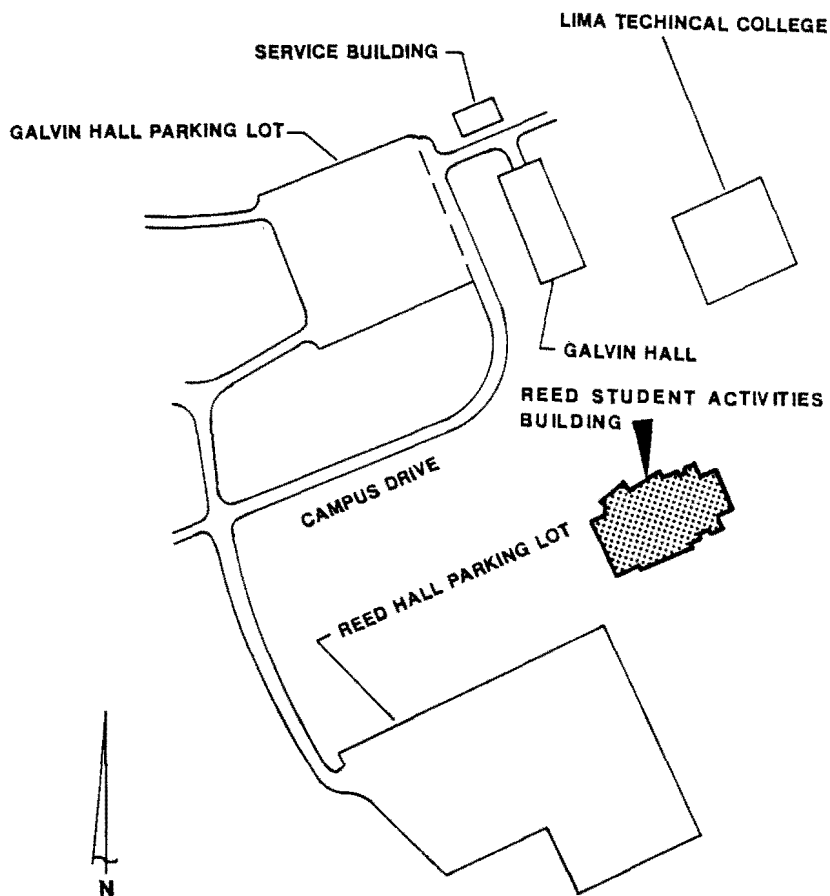
Bids received by The Ohio State University on April 11, 1989. Bids opened by Tamara Bell and tabulated by Jerry Pullins. Awards indicated with an "\*".

General Contract - Masonry	Estimate	J & P Paving *	Walter Assoc.	Trisco Systems	Grunwell Cashero
Base Bid - No Alternates	\$28,250.00	\$17,872.00	\$23,221.00	\$23,891.00	\$25,079.00
Total General Contract - Masonry	\$28,250.00	\$17,872.00	\$23,221.00	\$23,891.00	\$25,079.00

General Contract - Roof	Estimate	New Tech *	Argus Roofing
Base Bid - No Alternates	\$127,000.00	\$124,871.00	\$137,460.00
Total General Contract - Roof	\$127,000.00	\$124,871.00	\$137,460.00



# **LIMA CAMPUS MASONRY REPAIRS AND ROOF REPLACEMENT**



**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

## QARDC - FISHER AUDITORIUM ROOF REPLACEMENT

### Tabulation of Bids

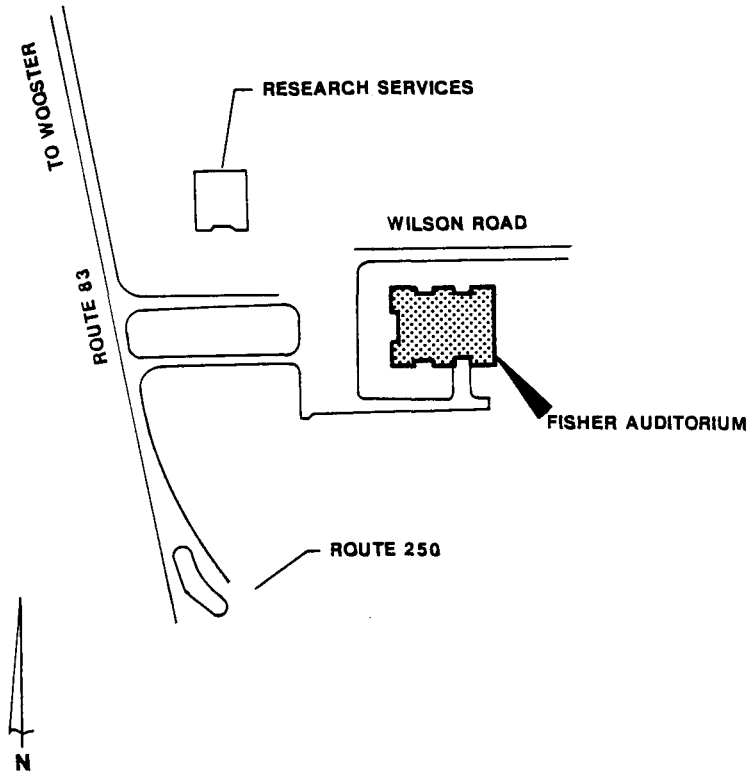
Bids received by The Ohio State University on April 25, 1989. Bids opened by Tamara Bell and tabulated by John Prazier. Awards indicated with an \*\*.

General Contract	Estimate	Franklin Roof *	Northern Ohio Roofing	Hick's Roofing	Atlas Single Ply System
Base Bid - No Alternates	\$64,100.00	\$44,700.00	\$47,520.00	\$47,940.00	\$48,349.00
Total General Contract	\$64,100.00	\$44,700.00	\$47,520.00	\$47,940.00	\$48,349.00

	Simon Roofing	Falcon Roofing	Building Tech	Beidler-Taylor	Mid American
Base Bid - No Alternates	\$49,688.00	\$49,886.00	\$52,234.00	\$52,897.00	\$54,210.00
Total General Contract	\$49,688.00	\$49,886.00	\$52,234.00	\$52,897.00	\$54,210.00

	Cheney Roofing	Edwards Roofing
Base Bid - No Alternates	\$57,960.00	\$59,800.00
Total General Contract	\$57,960.00	\$59,800.00

# **OARDC FISHER AUDITORIUM ROOF REPLACEMENT**



**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

SCOTT HALL REMODELING - PHASE I

Tabulation of Bids

Bids received by The Ohio State University on April 26, 1989. Bids opened by Tamara Bell and tabulated by Charles Hamilton. Awards indicated with an \*\*\*.

General Contract	Estimate	Good Home Maintenance *	Ed Ross	Waller & Lund	Functional Development
Base Bid	\$128,500.00	\$53,976.00	\$54,460.00	\$56,330.00	\$56,745.00
Alt. G-1 (Rooms 283 & 283A)	\$31,400.00	\$13,862.00	\$19,750.00	\$19,980.00	\$19,225.00
Alt. G-2 (Rooms 285-289)	\$20,250.00	\$14,974.00	\$18,970.00	\$23,960.00	\$24,755.00
Total General Contract (Includes all alternates)	\$180,150.00	\$82,812.00	\$93,180.00	\$100,270.00	\$100,725.00

	M & P Constr	J & M Bennett	Allen Ballew	CW Constr	Williamson
Base Bid	\$74,200.00	\$65,400.00	\$83,934.00	\$83,900.00	\$95,820.00
Alt. G-1 (Rooms 283 & 283A)	\$15,200.00	\$21,400.00	\$19,920.00	\$19,439.00	\$17,728.00
Alt. G-2 (Rooms 285-289)	\$17,000.00	\$24,000.00	\$18,071.00	\$25,289.00	\$16,157.00
Total General Contract (Includes all alternates)	\$106,400.00	\$110,800.00	\$121,925.00	\$128,628.00	\$129,705.00

	Scherl-Wilson
Base Bid	\$89,900.00
Alt. G-1 (Rooms 283 & 283A)	\$22,200.00
Alt. G-2 (Rooms 285-289)	\$22,300.00
Total General Contract (Includes all alternates)	\$134,400.00

REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS (Cont)

SCOTT HALL REMODELING - PHASE I

Tabulation of Bids (Cont)

Plumbing Contract	Estimate	Westland *	Marco	Farber	J. A. Croson
Base Bid	\$40,000.00	\$32,000.00	\$35,300.00	\$34,000.00	\$37,489.00
Alt. P-1 (Rooms 283 & 283A)	\$27,100.00	\$12,500.00	\$9,800.00	\$11,900.00	\$10,989.00
Total Plumbing Contract (Includes all alternates)	\$67,100.00	\$44,500.00	\$45,100.00	\$45,900.00	\$48,478.00

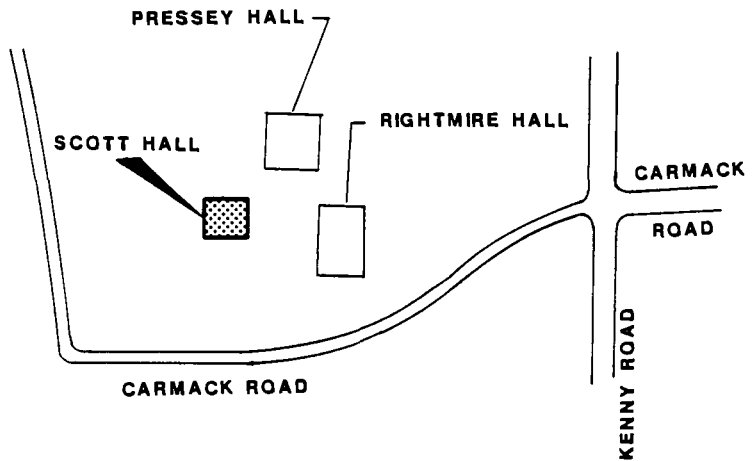
Radico

Base Bid	\$40,800.00
Alt. P-1 (Rooms 283 & 283A)	\$8,800.00
Total Plumbing Contract (Includes all alternates)	\$49,600.00

HVAC Contract	Estimate	J. A. Guy *	Marco	Farber
Base Bid	\$52,000.00	\$37,300.00	\$39,700.00	\$48,100.00
Alt. H-1 (Rooms 283 & 283A)	\$17,700.00	\$17,000.00	\$17,500.00	\$15,449.00
Alt. H-2 (Rooms 285-289)	\$6,000.00	\$6,300.00	\$12,000.00	\$6,300.00
Total HVAC Contract (Includes all alternates)	\$75,700.00	\$60,600.00	\$69,200.00	\$69,849.00

Electric Contract	Estimate	Power National *	Reco	Claggett	Prush & Roman
Base Bid	\$38,000.00	\$27,274.00	\$30,300.00	\$30,220.00	\$34,457.00
Alt. E-1 (Rooms 283 & 283A)	\$9,000.00	\$4,882.00	\$4,800.00	\$5,763.00	\$5,917.00
Alt. E-2 (Rooms 285-289)	\$7,500.00	\$7,111.00	\$8,900.00	\$8,625.00	\$9,833.00
Total Electric Contract (Includes all alternates)	\$54,500.00	\$39,267.00	\$44,000.00	\$44,608.00	\$50,207.00

# SCOTT HALL REMODELING PHASE I



**OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989**

# REPORT OF AWARD OF CONTRACTS AND ESTABLISHMENT OF CONTINGENCY FUNDS

## OHIO STADIUM - REHABILITATION OF EXTERIOR CONCRETE

### Tabulation of Bids

Bids received by The Ohio State University on April 20, 1989. Bids opened by Tamara Bell and tabulated by Lynn Brooks. Awards indicated with an "\*".

General Contract	Estimate	Martin Constr. *	J & P Paving	Walter Assoc.	Central Ohio Bldg
Base Bid	\$958,000.00	\$579,530.00	\$679,186.00	\$771,754.50	\$1,049,849.00
Total General Contract	\$958,000.00	\$579,530.00	\$679,186.00	\$771,754.50	\$1,049,849.00

Alternates not taken:

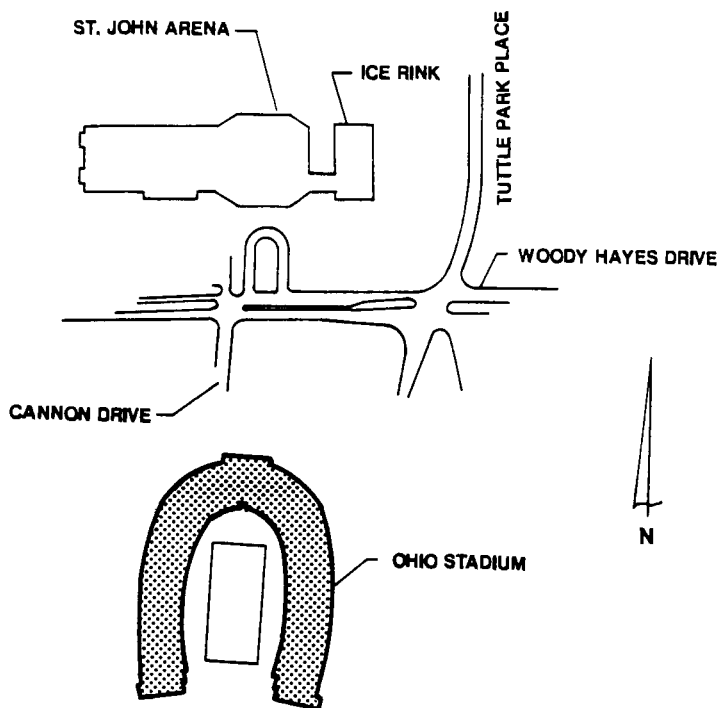
G-1 (Concrete Color Coating)	\$185,000.00	\$85,388.00	\$143,500.00	\$59,770.00
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General Contract	Detail
Base Bid	\$1,046,607.50
Total General Contract	\$1,046,607.50

Alternates not taken:

G-1 (Concrete Color Coating)	\$117,376.00
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# OHIO STADIUM REHABILITATION OF EXTERIOR CONCRETE



OFFICE OF BUSINESS AND ADMINISTRATION  
JUNE 2, 1989

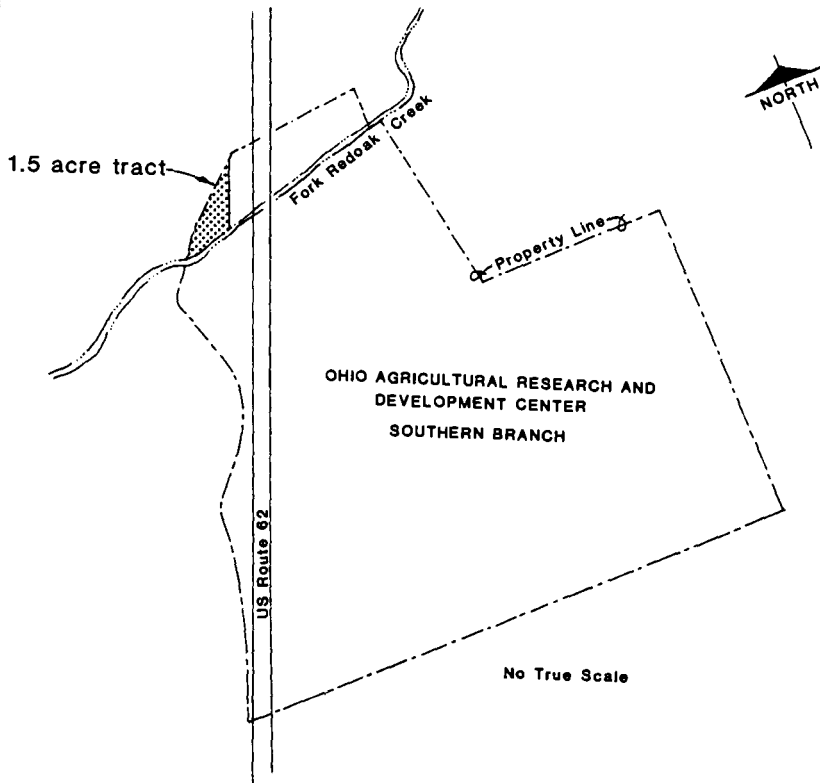


APPENDIX LXII

LEASE OF LAND TO UNION TOWNSHIP  
1.5 ACRES IN BROWN COUNTY, OHIO

Adopted by the Board of Trustees June 2, 1989  
(See page 1374)

Lease of Land to Union Township  
1.5 Acres in Brown County, Ohio



Office of Business and Administration  
June 2, 1989

APPENDIX LXIII

THE OHIO STATE UNIVERSITY 1989-90  
PROVISIONAL CURRENT FUNDS BUDGET

Adopted by the Board of Trustees June 2, 1989  
(See page 1378)

THE OHIO STATE UNIVERSITY  
1989-90 PROVISIONAL CURRENT FUNDS BUDGET

All Funds Summary of Resources and Uses

<b>Budgeted Resources</b>		
Central Campus		
State Appropriations		\$297,550,000
Student Fees		
Instructional, General & Tuition	153,650,000	
Non-Credit Instruction	5,000,000	
Subtotal Student Fees		\$158,650,000
Other Resources		
Federal Grants and Contracts	109,800,000	
Ohio Grants and Contracts	15,050,000	
Local Grants and Contracts	13,140,000	
Private Gifts and Grants	60,660,000	
Endowment Income	10,050,000	
Departmental Sales & Services	28,770,000	
Auxiliary Sales & Charges	85,950,000	
Hospital Sales & Services	222,270,000	
Other Sources	14,090,000	
Subtotal Other Resources		\$559,780,000
Total Central Campus		\$1,015,980,000
Regional Campuses		
State Appropriations	13,330,000	
Student Fees	9,940,000	
Other Resources	3,490,000	
Total Regional Campuses		\$26,760,000
OARDC		
State Appropriations	20,040,000	
Federal	6,600,000	
All Other	3,900,000	
Total OARDC		\$30,540,000
Grand Total - Resources		\$1,073,280,000
<b>Budgeted Uses</b>		
Central Campus		
Educational and General Expenditures	687,190,000	
Auxiliaries	92,910,000	
Hospital	235,830,000	
Total Central Campus		\$1,015,930,000
Regional Campuses		
ATI	6,430,000	
Lima	5,680,000	
Mansfield	5,070,000	
Marion	4,430,000	
Newark	5,120,000	
Total Regional Campuses		\$26,730,000
OARDC		\$30,540,000
Grand Total - Uses		\$1,073,200,000

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